

PC-0032 US

<110> Reddy, Roopa
Tang, Y. Tom
Baughn, Mariah R.
Krasnow, Randi E.

<120> ASIP-RELATED PROTEINS

<130> PC-0032 US

<140> To Be Assigned

<141> Herewith

<160> 63

<170> PERL Program

<210> 1

<211> 935

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1555118CD1

<400> 1

Met	Lys	Val	Thr	Val	Cys	Phe	Gly	Arg	Thr	Gly	Ile	Val	Val	Pro
1				5					10					15
Cys	Lys	Glu	Gly	Gln	Leu	Arg	Val	Gly	Glu	Leu	Thr	Gln	Gln	Ala
				20					25					30
Leu	Gln	Arg	Tyr	Leu	Lys	Thr	Arg	Glu	Lys	Gly	Pro	Gly	Tyr	Trp
				35					40					45
Val	Lys	Ile	His	His	Leu	Glu	Tyr	Thr	Asp	Gly	Gly	Ile	Leu	Asp
				50					55					60
Pro	Asp	Asp	Val	Leu	Ala	Asp	Val	Val	Glu	Asp	Lys	Asp	Lys	Leu
				65					70					75
Ile	Ala	Val	Phe	Glu	Glu	Gln	Glu	Pro	Leu	His	Lys	Ile	Glu	Ser
				80					85					90
Pro	Ser	Gly	Asn	Pro	Ala	Asp	Arg	Gln	Ser	Pro	Asp	Ala	Phe	Glu
				95					100					105
Thr	Glu	Val	Ala	Ala	Gln	Leu	Ala	Ala	Phe	Lys	Pro	Ile	Gly	Gly
				110					115					120
Glu	Ile	Glu	Val	Thr	Pro	Ser	Ala	Leu	Lys	Leu	Gly	Thr	Pro	Leu
				125					130					135
Leu	Val	Arg	Arg	Ser	Ser	Asp	Pro	Val	Pro	Gly	Pro	Pro	Ala	Asp
				140					145					150
Thr	Gln	Pro	Ser	Ala	Ser	His	Pro	Gly	Gly	Gln	Ser	Leu	Lys	Leu
				155					160					165
Val	Val	Pro	Asp	Ser	Thr	Gln	Asn	Leu	Glu	Asp	Arg	Glu	Val	Leu
				170					175					180
Asn	Gly	Val	Gln	Thr	Glu	Leu	Leu	Thr	Ser	Pro	Arg	Thr	Lys	Asp
				185					190					195
Thr	Leu	Ser	Asp	Met	Thr	Arg	Thr	Val	Glu	Ile	Ser	Gly	Glu	Gly
				200					205					210
Gly	Pro	Leu	Gly	Ile	His	Val	Val	Pro	Phe	Phe	Ser	Ser	Leu	Ser
				215					220					225

PC-0032 US

Gly Arg Ile Leu	Gly Leu Phe Ile Arg	Gly Ile Glu Asp Asn Ser	230	235	240
Arg Ser Lys Arg	Glu Gly Leu Phe His	Glu Asn Glu Cys Ile Val	245	250	255
Lys Ile Asn Asn	Val Asp Leu Val Asp	Lys Thr Phe Ala Gln Ala	260	265	270
Gln Asp Val Phe	Arg Gln Ala Met Lys	Ser Pro Ser Val Leu Leu	275	280	285
His Val Leu Pro	Pro Gln Asn Arg Glu	Gln Tyr Glu Lys Ser Val	290	295	300
Ile Gly Ser Leu	Asn Ile Phe Gly Asn	Asn Asp Gly Val Leu Lys	305	310	315
Thr Lys Val Pro	Pro Pro Val His Gly	Lys Ser Gly Leu Lys Thr	320	325	330
Ala Asn Leu Thr	Gly Thr Asp Ser Pro	Glu Thr Asp Ala Ser Ala	335	340	345
Ser Leu Gln Gln	Asn Lys Ser Pro Arg	Val Pro Arg Leu Gly Gly	350	355	360
Lys Pro Ser Ser	Pro Ser Leu Ser Pro	Leu Met Gly Phe Gly Ser	365	370	375
Asn Lys Asn Ala	Lys Lys Ile Lys Ile	Asp Leu Lys Lys Gly Pro	380	385	390
Glu Gly Leu Gly	Phe Thr Val Val Thr	Arg Asp Ser Ser Ile His	395	400	405
Gly Pro Gly Pro	Ile Phe Val Lys Asn	Ile Leu Pro Lys Gly Ala	410	415	420
Ala Ile Lys Asp	Gly Arg Leu Gln Ser	Gly Asp Arg Ile Leu Glu	425	430	435
Val Asn Gly Arg	Asp Val Thr Gly Arg	Gln Glu Glu Leu Val	440	445	450
Ala Met Leu Arg	Ser Thr Lys Gln Gly	Glu Thr Ala Ser Leu Val	455	460	465
Ile Ala Arg Gln	Glu Gly His Phe Leu	Pro Arg Glu Leu Lys Gly	470	475	480
Glu Pro Asp Cys	Cys Ala Leu Ser Leu	Glu Thr Ser Glu Gln Leu	485	490	495
Thr Phe Glu Ile	Pro Leu Asn Asp Ser	Gly Ser Ala Gly Leu Gly	500	505	510
Val Ser Leu Lys	Gly Asn Lys Ser Arg	Glu Thr Gly Thr Asp Leu	515	520	525
Gly Ile Phe Ile	Lys Ser Ile Ile His	Gly Gly Ala Ala Phe Lys	530	535	540
Asp Gly Arg Leu	Arg Met Asn Asp Gln	Leu Ile Ala Val Asn Gly	545	550	555
Glu Ser Leu Leu	Gly Lys Ser Asn His	Glu Ala Met Glu Thr Leu	560	565	570
Arg Arg Pro Met	Ser Met Glu Gly Asn	Ile Arg Gly Met Ile Gln	575	580	585
Leu Val Ile Leu	Arg Arg Pro Glu Arg	Pro Met Glu Asp Pro Ala	590	595	600
Glu Cys Gly Ala	Phe Ser Lys Pro Cys	Phe Glu Asn Cys Gln Asn	605	610	615
Ala Val Thr Thr	Ser Arg Arg Asn Asp	Asn Ser Ile Leu His Pro	620	625	630
Leu Gly Thr Cys	Ser Pro Gln Asp Lys	Gln Lys Gly Leu Leu Leu	635	640	645

PC-0032 US

Pro	Asn	Asp	Gly	Trp	Ala	Glu	Ser	Glu	Val	Pro	Pro	Ser	Pro	Thr
				650					655					660
Pro	His	Ser	Ala	Leu	Gly	Leu	Gly	Leu	Glu	Asp	Tyr	Ser	His	Ser
				665					670					675
Ser	Gly	Val	Asp	Ser	Ala	Val	Tyr	Phe	Pro	Asp	Gln	His	Ile	Asn
				680					685					690
Phe	Arg	Ser	Val	Thr	Pro	Ala	Arg	Gln	Pro	Glu	Ser	Ile	Asn	Leu
				695					700					705
Lys	Ala	Ser	Lys	Ser	Met	Asp	Leu	Val	Pro	Asp	Glu	Ser	Lys	Val
				710					715					720
His	Ser	Leu	Ala	Gly	Gln	Lys	Ser	Glu	Ser	Pro	Ser	Lys	Asp	Phe
				725					730					735
Gly	Pro	Thr	Leu	Gly	Leu	Lys	Lys	Ser	Ser	Ser	Leu	Glu	Ser	Leu
				740					745					750
Gln	Thr	Ala	Val	Ala	Glu	Val	Arg	Lys	Asn	Asp	Leu	Pro	Phe	His
				755					760					765
Arg	Pro	Arg	Pro	His	Met	Val	Arg	Gly	Arg	Gly	Cys	Asn	Glu	Ser
				770					775					780
Phe	Arg	Ala	Ala	Ile	Asp	Lys	Ser	Tyr	Asp	Gly	Pro	Glu	Glu	Ile
				785					790					795
Glu	Ala	Asp	Gly	Leu	Ser	Asp	Lys	Ser	Ser	His	Ser	Gly	Gln	Gly
				800					805					810
Ala	Leu	Asn	Cys	Glu	Ser	Ala	Pro	Gln	Gly	Asn	Ser	Glu	Leu	Glu
				815					820					825
Asp	Met	Glu	Asn	Lys	Ala	Arg	Lys	Val	Lys	Lys	Thr	Lys	Glu	Lys
				830					835					840
Glu	Lys	Lys	Lys	Glu	Lys	Gly	Lys	Leu	Lys	Val	Lys	Glu	Lys	Lys
				845					850					855
Arg	Lys	Glu	Glu	Asn	Glu	Asp	Pro	Glu	Arg	Lys	Ile	Lys	Lys	Lys
				860					865					870
Gly	Phe	Gly	Ala	Met	Leu	Arg	Tyr	Gly	Pro	Ala	Leu	Lys	Ala	Lys
				875					880					885
Leu	Val	Leu	Ile	Leu	Ser	Leu	Leu	Lys	Lys	Ala	His	Ala	Phe	Pro
				890					895					900
Arg	Leu	Gln	Pro	Asn	Ala	Tyr	Gly	Ser	Gln	Phe	Cys	Ala	Arg	Ser
				905					910					915
Leu	Ser	Ala	Glu	Ala	Glu	Glu	Leu	Phe	Gly	Glu	Ser	Tyr	Ser	Asp
				920					925					930
Asp	Arg	Thr	Leu	Ser										
				935										

<210> 2

<211> 1356

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2582063CD1

<400> 2

Met	Lys	Val	Thr	Val	Cys	Phe	Gly	Arg	Thr	Arg	Val	Val	Val	Pro
1				5					10					15
Cys	Gly	Asp	Gly	His	Met	Lys	Val	Phe	Ser	Leu	Ile	Gln	Gln	Ala
				20					25					30
Val	Thr	Arg	Tyr	Arg	Lys	Ala	Ile	Ala	Lys	Asp	Pro	Asn	Tyr	Trp

				35					40					45
Ile	Gln	Val	His	Arg	Leu	Glu	His	Gly	Asp	Gly	Gly	Ile	Leu	Asp
				50					55					60
Leu	Asp	Asp	Ile	Leu	Cys	Asp	Val	Ala	Asp	Asp	Lys	Asp	Arg	Leu
				65					70					75
Val	Ala	Val	Phe	Asp	Glu	Gln	Asp	Pro	His	His	Gly	Gly	Asp	Gly
				80					85					90
Thr	Ser	Ala	Ser	Ser	Thr	Gly	Thr	Gln	Ser	Pro	Glu	Ile	Phe	Gly
				95					100					105
Ser	Glu	Leu	Gly	Thr	Asn	Asn	Val	Ser	Ala	Phe	Gln	Pro	Tyr	Gln
				110					115					120
Ala	Thr	Ser	Glu	Ile	Glu	Val	Thr	Pro	Ser	Val	Leu	Arg	Ala	Asn
				125					130					135
Met	Pro	Leu	His	Val	Arg	Arg	Ser	Ser	Asp	Pro	Ala	Leu	Ile	Gly
				140					145					150
Leu	Ser	Thr	Ser	Val	Ser	Asp	Ser	Asn	Phe	Ser	Ser	Glu	Glu	Pro
				155					160					165
Ser	Arg	Lys	Asn	Pro	Thr	Arg	Trp	Ser	Thr	Thr	Ala	Gly	Phe	Leu
				170					175					180
Lys	Gln	Asn	Thr	Ala	Gly	Ser	Pro	Lys	Thr	Cys	Asp	Arg	Lys	Lys
				185					190					195
Asp	Glu	Asn	Tyr	Arg	Ser	Leu	Pro	Arg	Asp	Thr	Ser	Asn	Trp	Ser
				200					205					210
Asn	Gln	Phe	Gln	Arg	Asp	Asn	Ala	Arg	Ser	Ser	Leu	Ser	Ala	Ser
				215					220					225
His	Pro	Met	Val	Gly	Lys	Trp	Leu	Glu	Lys	Gln	Glu	Gln	Asp	Glu
				230					235					240
Asp	Gly	Thr	Glu	Glu	Asp	Asn	Ser	Arg	Val	Glu	Pro	Val	Gly	His
				245					250					255
Ala	Asp	Thr	Gly	Leu	Glu	His	Ile	Pro	Asn	Phe	Ser	Leu	Asp	Asp
				260					265					270
Met	Val	Lys	Leu	Val	Glu	Val	Pro	Asn	Asp	Gly	Gly	Pro	Leu	Gly
				275					280					285
Ile	His	Val	Val	Pro	Phe	Ser	Ala	Arg	Gly	Gly	Arg	Thr	Leu	Gly
				290					295					300
Leu	Leu	Val	Lys	Arg	Leu	Glu	Lys	Gly	Gly	Lys	Ala	Glu	His	Glu
				305					310					315
Asn	Leu	Phe	Arg	Glu	Asn	Asp	Cys	Ile	Val	Arg	Ile	Asn	Asp	Gly
				320					325					330
Asp	Leu	Arg	Asn	Arg	Arg	Phe	Glu	Gln	Ala	Gln	His	Met	Phe	Arg
				335					340					345
Gln	Ala	Met	Arg	Thr	Pro	Ile	Ile	Trp	Phe	His	Val	Val	Pro	Ala
				350					355					360
Ala	Asn	Lys	Glu	Gln	Tyr	Glu	Gln	Leu	Ser	Gln	Ser	Glu	Lys	Asn
				365					370					375
Asn	Tyr	Tyr	Ser	Ser	Arg	Phe	Ser	Pro	Asp	Ser	Gln	Tyr	Ile	Asp
				380					385					390
Asn	Arg	Ser	Val	Asn	Ser	Ala	Gly	Leu	His	Thr	Val	Gln	Arg	Ala
				395					400					405
Pro	Arg	Leu	Asn	His	Pro	Pro	Glu	Gln	Ile	Asp	Ser	His	Ser	Arg
				410					415					420
Leu	Pro	His	Ser	Ala	His	Pro	Ser	Gly	Lys	Pro	Pro	Ser	Ala	Pro
				425					430					435
Ala	Ser	Ala	Pro	Gln	Asn	Val	Phe	Ser	Thr	Thr	Val	Ser	Ser	Gly
				440					445					450
Tyr	Asn	Thr	Lys	Lys	Ile	Gly	Lys	Arg	Leu	Asn	Ile	Gln	Leu	Lys

Lys Gly Thr Glu	455	Gly Leu Gly Phe Ser	460	Ile Thr Ser Arg Asp	465
	470		475		480
Thr Ile Gly Gly	485	Ser Ala Pro Ile Tyr	490	Val Lys Asn Ile Leu	495
Arg Gly Ala Ala	500	Ile Gln Asp Gly Arg	505	Leu Lys Ala Gly Asp	510
Leu Ile Glu Val	515	Asn Gly Val Asp Leu	520	Val Gly Lys Ser Gln	525
Glu Val Val Ser	530	Leu Leu Arg Ser Thr	535	Lys Met Glu Gly Thr	540
Ser Leu Leu Val	545	Phe Arg Gln Glu Asp	550	Ala Phe His Pro Arg	555
Leu Asn Ala Glu	560	Pro Ser Gln Met Gln	565	Ile Pro Lys Glu Thr	570
Ala Glu Asp Glu	575	Asp Ile Val Leu Thr	580	Pro Asp Gly Thr Arg	585
Phe Leu Thr Phe	590	Glu Val Pro Leu Asn	595	Asp Ser Gly Ser Ala	600
Leu Gly Val Ser	605	Val Lys Gly Asn Arg	610	Ser Lys Glu Asn His	615
Asp Leu Gly Ile	620	Phe Val Lys Ser Ile	625	Ile Asn Gly Gly Ala	630
Ser Lys Asp Gly	635	Arg Leu Arg Val Asn	640	Asp Gln Leu Ile Ala	645
Asn Gly Glu Ser	650	Leu Leu Gly Lys Thr	655	Asn Gln Asp Ala Met	660
Thr Leu Arg Arg	665	Ser Met Ser Thr Glu	670	Gly Asn Lys Arg Gly	675
Ile Gln Leu Ile	680	Val Ala Arg Arg Ile	685	Ser Lys Cys Asn Glu	690
Lys Ser Pro Gly	695	Ser Pro Pro Gly Pro	700	Glu Leu Pro Ile Glu	705
Ala Leu Asp Asp	710	Arg Glu Arg Arg Ile	715	Ser His Ser Leu Tyr	720
Gly Ile Glu Gly	725	Leu Asp Glu Ser Pro	730	Ser Arg Asn Ala Ala	735
Ser Arg Ile Met	740	Gly Glu Ser Gly Lys	745	Tyr Gln Leu Ser Pro	750
Val Asn Met Pro	755	Gln Asp Asp Thr Val	760	Ile Ile Glu Asp Asp	765
Leu Pro Val Leu	770	Pro Pro His Leu Ser	775	Asp Gln Ser Ser Ser	780
Ser His Asp Asp	785	Val Gly Phe Val Thr	790	Ala Asp Ala Gly Thr	795
Ala Lys Ala Ala	800	Ile Ser Asp Ser Ala	805	Asp Cys Ser Leu Ser	810
Asp Val Asp Pro	815	Val Leu Ala Phe Gln	820	Arg Glu Gly Phe Gly	825
Gln Ser Met Ser	830	Glu Lys Arg Thr Lys	835	Gln Phe Ser Asp Ala	840
Gln Leu Asp Phe	845	Val Lys Thr Arg Lys	850	Ser Lys Ser Met Asp	855
Gly Ile Ala Asp	860	Glu Thr Lys Leu Asn	865	Thr Val Asp Asp Gln	870
Ala Gly Ser Pro		Ser Arg Asp Val Gly		Pro Ser Leu Gly Leu	Lys

				875					880					885
Lys	Ser	Ser	Ser	Leu	Glu	Ser	Leu	Gln	Thr	Ala	Val	Ala	Glu	Val
				890					895					900
Thr	Leu	Asn	Gly	Asp	Ile	Pro	Phe	His	Arg	Pro	Arg	Pro	Arg	Ile
				905					910					915
Ile	Arg	Gly	Arg	Gly	Cys	Asn	Glu	Ser	Phe	Arg	Ala	Ala	Ile	Asp
				920					925					930
Lys	Ser	Tyr	Asp	Lys	Pro	Ala	Val	Asp	Asp	Asp	Asp	Glu	Gly	Met
				935					940					945
Glu	Thr	Leu	Glu	Glu	Asp	Thr	Glu	Glu	Ser	Ser	Arg	Ser	Gly	Arg
				950					955					960
Glu	Ser	Val	Ser	Thr	Ala	Ser	Asp	Gln	Pro	Ser	His	Ser	Leu	Glu
				965					970					975
Arg	Gln	Met	Asn	Gly	Asn	Gln	Glu	Lys	Gly	Asp	Lys	Thr	Asp	Arg
				980					985					990
Lys	Lys	Asp	Lys	Thr	Gly	Lys	Glu	Lys	Lys	Lys	Asp	Arg	Asp	Lys
				995					1000					1005
Glu	Lys	Asp	Lys	Met	Lys	Ala	Lys	Lys	Gly	Met	Leu	Lys	Gly	Leu
				1010					1015					1020
Gly	Asp	Met	Phe	Arg	Phe	Gly	Lys	His	Arg	Lys	Asp	Asp	Lys	Ile
				1025					1030					1035
Glu	Lys	Thr	Gly	Lys	Ile	Lys	Ile	Gln	Glu	Ser	Phe	Thr	Ser	Glu
				1040					1045					1050
Glu	Glu	Arg	Ile	Arg	Met	Lys	Gln	Glu	Gln	Glu	Arg	Ile	Gln	Ala
				1055					1060					1065
Lys	Thr	Arg	Glu	Phe	Arg	Glu	Arg	Gln	Ala	Arg	Glu	Arg	Asp	Tyr
				1070					1075					1080
Ala	Glu	Ile	Gln	Asp	Phe	His	Arg	Thr	Phe	Gly	Cys	Asp	Asp	Glu
				1085					1090					1095
Leu	Met	Tyr	Gly	Gly	Val	Ser	Ser	Tyr	Glu	Gly	Ser	Met	Ala	Leu
				1100					1105					1110
Asn	Ala	Arg	Pro	Gln	Ser	Pro	Arg	Glu	Gly	His	Met	Met	Asp	Ala
				1115					1120					1125
Leu	Tyr	Ala	Gln	Val	Lys	Lys	Pro	Arg	Asn	Ser	Lys	Pro	Ser	Pro
				1130					1135					1140
Val	Asp	Ser	Asn	Arg	Ser	Thr	Pro	Ser	Asn	His	Asp	Arg	Ile	Gln
				1145					1150					1155
Arg	Leu	Arg	Gln	Glu	Phe	Gln	Gln	Ala	Lys	Gln	Asp	Glu	Asp	Val
				1160					1165					1170
Glu	Asp	Arg	Arg	Arg	Thr	Tyr	Ser	Phe	Glu	Gln	Pro	Trp	Pro	Asn
				1175					1180					1185
Ala	Arg	Pro	Ala	Thr	Gln	Ser	Gly	Arg	His	Ser	Val	Ser	Val	Glu
				1190					1195					1200
Val	Gln	Met	Gln	Arg	Gln	Arg	Gln	Glu	Glu	Arg	Glu	Ser	Ser	Gln
				1205					1210					1215
Gln	Ala	Gln	Arg	Gln	Tyr	Ser	Ser	Leu	Pro	Arg	Gln	Ser	Arg	Lys
				1220					1225					1230
Asn	Ala	Ser	Ser	Val	Ser	Gln	Asp	Ser	Trp	Glu	Gln	Asn	Tyr	Ser
				1235					1240					1245
Pro	Gly	Glu	Gly	Phe	Gln	Ser	Ala	Lys	Glu	Asn	Pro	Arg	Tyr	Ser
				1250					1255					1260
Ser	Tyr	Gln	Gly	Ser	Arg	Asn	Gly	Tyr	Leu	Gly	Gly	His	Gly	Phe
				1265					1270					1275
Asn	Ala	Arg	Val	Met	Leu	Glu	Thr	Gln	Glu	Leu	Leu	Arg	Gln	Glu
				1280					1285					1290
Gln	Arg	Arg	Lys	Glu	Gln	Gln	Met	Lys	Lys	Gln	Pro	Pro	Ser	Glu

PC-0032 US

	1295		1300		1305									
Gly	Pro	Ser	Asn	Tyr	Asp	Ser	Tyr	Lys	Lys	Val	Gln	Asp	Pro	Ser
	1310		1315		1320									
Tyr	Ala	Pro	Pro	Lys	Gly	Pro	Phe	Arg	Gln	Asp	Val	Pro	Pro	Ser
	1325		1330		1335									
Pro	Ser	Gln	Val	Ala	Arg	Leu	Asn	Arg	Leu	Gln	Thr	Pro	Glu	Lys
	1340		1345		1350									
Gly	Arg	Pro	Phe	Tyr	Ser									
	1355													

<210> 3

<211> 2968

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1555118CB1

<400> 3

aagggg	cgct	gccg	cagacc	tccggg	cctc	agggtg	ttcc	ggggag	cggc	gccccg	gggtc	60
tctggg	ccca	cccg	ccccg	gcgtc	cctccg	agagt	gggg	ctgcg	ccccg	gggtc	cagac	120
acctgt	tcgg	cccg	ccccg	cgtgg	tcgcc	ggggg	ccagg	atgaa	agtga	ccgtg	tgctt	180
cggcagg	acg	ggcat	cgtgg	tgccct	gcaa	ggagg	gccag	ctgcg	cgctc	gcgag	ctcac	240
ccagcagg	cgc	ctgcag	cggt	acctga	aagac	ccggg	gagaag	ggtcct	gggtt	actgg	gtgaa	300
gattcat	cac	ttaga	aatata	cagat	ggagg	aatcct	ggat	ccagat	gatg	tcttg	gcaga	360
tggtgt	tgaa	gataa	aagaca	agctg	attgc	tgtgt	ttgaa	gaaca	agaac	cactc	cacaa	420
gattgag	agc	cccagt	ggaa	accctg	caga	tcggc	agagc	ccagat	gctt	ttgag	acaga	480
agtggcc	gcc	caactg	gctg	cattta	aagcc	aattg	gtggg	gagatt	gaag	taacc	ccttc	540
tgctcta	aaaa	ctagg	cactc	cactg	ctgg	gaggag	aagc	agtga	cccag	tgccag	ggccc	600
acctgct	gat	acccag	ccaa	gcgct	tcaca	ccctg	gtggc	cagagt	ctga	aactg	gttgt	660
tccagatt	cc	acgcag	aact	tggaag	acag	agaag	ttttg	aatgg	gttac	agacag	aact	720
actaact	tcg	ccaaga	aacta	aggac	acatt	gagtga	tatg	acaag	aacag	tgga	gatttc	780
tgggga	aagga	ggccc	attgg	gaata	catgt	agtgc	ccttc	ttttc	atctc	tgagt	ggaag	840
gattcta	gga	ctctt	catcc	gaggc	attga	agaca	acagc	aggtc	caagc	gggag	gggact	900
atttcac	gaa	aatga	atgta	ttgta	aaaaat	caaca	atgtg	gatct	cgtag	acaaa	acctt	960
tgctcag	gct	caagat	gtct	tccgc	caggc	aatga	aatct	ccaag	tgtgc	tcctc	cacgt	1020
gcttcct	cca	caaaac	cggtg	aacagt	atga	aaagt	cagtc	attgg	ctctc	ttaac	atttt	1080
tggaata	aat	gatgg	cggtt	tgaaa	accaa	agtgc	cgctc	cctgt	ccatg	gaaaat	cggg	1140
actaaag	aca	gcaaat	ctca	cagga	aaccga	tagtc	ctgaa	acagat	gcat	cagct	tcct	1200
gcaacaaa	aac	aagagt	cccc	gagtac	caag	gctgg	gagga	aaacc	atcct	ctccct	cact	1260
ctcgct	ctc	atggg	atttg	gcagc	aataa	aaatg	caaag	aaaat	taaga	ttgac	ctaaa	1320
gaaagg	ccct	gaagg	acttg	gtttc	actgt	ggttac	caga	gactc	ttcca	tacat	gggtc	1380
cggtccc	att	tttgt	aaaaa	acattt	tacc	aaagg	gagca	gcaata	aaaag	atggc	cgct	1440
acaatc	aggg	gacaga	aattt	tggag	gtaaa	tgggag	agat	gtcac	cggac	gaacc	cagga	1500
agagct	ttgt	gccat	gctca	ggagc	accaa	gcaggg	gggag	acagc	atcgc	tggtc	attgc	1560
ccgcca	aagaa	ggacat	tttc	tgcccc	gaga	gttgaa	agga	gaacct	gact	gctgt	gcact	1620
ctctct	ggag	acaag	cagac	agctc	acctt	tgagat	cccc	ctgaat	gatt	caggt	tctgc	1680
tggcct	cggg	gtgag	cttaa	aaggga	acaa	atccag	agaa	actgg	aacag	acttg	gggat	1740
ttttat	caaa	tccat	cattc	atggag	gcgc	tgcttt	taag	gatgg	tcgtc	tgcca	atgaa	1800
tgaccag	ctg	attgc	agtta	atgggg	aatc	tctttt	ggga	aagtcc	aacc	acga	agctat	1860
ggaaac	actt	aggcg	gcaa	tgccat	gga	gggaa	acatc	cgagg	gatga	tccag	ttgg	1920
gattct	gagg	aggcc	agaga	gacca	atgga	ggatc	ctgca	gagtgt	gggg	cattt	tccaa	1980
gccatg	cttt	gaga	actgtc	aaaat	gctgt	aaccac	ctct	aggcg	aaatg	ataat	agtat	2040
cctgc	atcca	cttgg	cactt	gcagt	ccaca	agaca	aacag	aaagg	tctat	tgctg	cccaa	2100
tgacgg	atgg	gccg	agagt	aagtt	ccacc	ttctc	caaca	ccacat	tctg	ctctg	gggat	2160

PC-0032 US

```
gggcctcgaa gattacagcc acagctctgg ggtggattca gcagtatatt ttccagatca 2220
gcacatcaac ttcagatctg tgacaccggc caggcagcct gaatcaatta atttgaaagc 2280
ctcgaagagc atggaccttg tgccagatga aagcaagggt cactcattgg ctggacaaaa 2340
atcggaatct ccaagcaaaag attttgggtcc aactctgggt ttgaaaaagt ccagctcctt 2400
ggagagtctg cagactgcag tggccgaggt caggaagaat gaccttcctt ttcacaggcc 2460
ccggccgcac atggttcgag gccgaggctg caatgagagc tttagagcag ccattgacaa 2520
atcctacgat ggacctgaag aaatagaagc tgacggtctg tctgataaga gctctcactc 2580
tggccaagga gctctgaatt gtgagtctgc ccctcagggg aattcggagc tagaggacat 2640
ggaaaataaa gccaggaaaag tcaaaaaaac gaaagagaag gagaagaaaa aggaaaaggg 2700
caaattgaaa gtcaaggaga aaaagcgcaa agaggagaat gaagatccag aaaggaaaat 2760
aaagaagaag ggcttcggcg ccatgctgag gtatgggcct gctttgaagg caaagtgtgt 2820
tctcattttg tctctcctga aaaaagcgca cgcttttcct cgtcttcagc caaatgcata 2880
cggctctcaa ttctgtgctc gttctctttc tgcagaggca gaggagcttt ttggggaaag 2940
ttacagtgat gacaggacac tgtcttaa 2968
```

<210> 4

<211> 194

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1555118H1

<400> 4

```
caacaccaca ttctgctctg ggattgggcc tcgaagatta cagccacagc tctgggggtg 60
attcagcagt atattttcca gatcagcaca tcaacttcag atctgtgaca cgggccaggc 120
agcctgaatc aattaatttg aaagcctcga agagcatgga cttgttgcca gatgaaagca 180
aggttcactc attg 194
```

<210> 5

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7227391H1

<400> 5

```
ggaatctgga acaaccagtt tcagactctg gccaccaggt gtgaagcgct tggctgggta 60
tcagcagggtg ggcttggcac tgggtcactg cttctcctca ccagcagtgg agtgcttagt 120
tttagagcag aaggggttac ttcaatctcc ccaccaattg gcttaaagtc agccagttgg 180
gcggccactt ctgtctcaaa agcatctggg ctctgccgat ctgcagggtt tccactgggg 240
ctctcaatct tgtggagtgg ttcttgttct tcaaacacag caatcagctt gtctttatct 300
tcaacaacat ctgccaaagac atcatctgga tccaggattc ctccatctgt atattctaag 360
tgatgaatct tcaccagta accaggaccc ttctcccggg tcttcaggta ccgctgcagc 420
gcctgctggg tgagctcgcc gacgcgcagc tggccctcct tgcagggcac cacgatgcc 480
gtcctgccga agcacacggt cactttcatc ctggcccccg gcgaccacgc cgg 533
```

<210> 6

<211> 588

<212> DNA

<213> Homo sapiens

<220>

PC-0032 US

<221> misc_feature

<223> Incyte ID No: 70158486V1

<400> 6

```
ccatggacag gaggcggcac tttggttttc aaaacgccat cattattacc aaaaatgtta 60
agagagccaa tgactgactt ttcatactgt tcacgggttt gtggaggaag cacgtggagg 120
agcacacttg gagatttcat tgcctggcgg aagacatctt gagcctgagc aaagggtttg 180
tctacgagat ccacattggt gattttttaca atacattcat tttcgtgaaa tagtccctcc 240
cgcttggacc tgctgttgct ttcaatgcct cggatgaaga gtccatagaat ccttccactc 300
agagatgaaa agaagggcac tacatgtatt cccaatgggc ctccctcccc agaaatctcc 360
actgttcttg tcatatcact caatgtgtcc ttagttcttg gcgaagttag tagttctgtc 420
tgtacaccat tcaaaacttc tctgtcttcc aagttctgcg tggaatctgg aacaaccagt 480
ttcagactct ggccaccagg gtgtgaagcg cttggctggg tatcagcagg tgggcctggc 540
actggggtca tgcttctcat cacaagcagt ggagtgccta gttttaga 588
```

<210> 7

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70162686V1

<400> 7

```
gaccatgtat ggaagagtct ctggtaacca cagtgaacc aagtccttca gggcctttct 60
ttaggtcaat cttaattttc tttgcatttt tattgctgcc aaatcccatg agaggcgaga 120
gtgagggaga ggatggtttt cctcccagcc ttgggtactcg gggactcttg ttttgttgca 180
gggaagctga tgcgtctgtt tcaggactat cggttcctgt gagatttgct gtctttagtc 240
ccgattttcc atggacagga ggcggcactt tggttttcaa aacgccatca ttattaccaa 300
aaatgttaag agagccaatg actgactttt catactgttc acggttttgt ggaggaaagc 360
acgtggagga gcacacttgg agatttcatt gcctggcgga agacatcttg agcctgagca 420
aaggttttgt ctacgagatc cacattgttg atttttacaa tacattcatt ttcgggaaat 480
a 481
```

<210> 8

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70151326V1

<400> 8

```
accagagact cttccataca tgggtcccgt cccatttttg taaaaaacat tttaccgaag 60
ggagcagcaa taaaagatgg ccgcctacaa tcaggggaca gaattttgga ggtaaattgg 120
agagatgtca ctggacgaac ccaggaagag cttgtggcca tgctcaggag caccaagcag 180
ggggagacag catcgctggt cattgcccgc caagaaggac attttctgcc ccgagagttg 240
aaaggagaac ctgactgctg tgcactctct ctggagacaa gcgagcagct cacctttgag 300
aatccccctg gatgattcag gttctgctgg cctcgggggt agcttaaaag ggaac 355
```

<210> 9

<211> 417

<212> DNA

<213> Homo sapiens

PC-0032 US

<220>

<221> misc_feature

<223> Incyte ID No: 70154198V1

<400> 9

```
gctgtaatct tcgaggccca atcccagagc agaatgtggt gttggagaag gtggaacttc 60
actctcggcc catccgtcat tgggcagcaa tagacctttc tgtttgtctt gtggactgca 120
agtgccaaagt ggatgcagga tactattatc atttcgccta gaggtgggta cagcattttg 180
acagttctca aagcatgggt tggaaaatgc cccacactct gcaggatcct ccattgggtct 240
ctctggcctc ctcagaatca ccaactggat catccctcgg atggttccct ccattggacat 300
tggccgccta agtgtttcca tagcttcgtg gttggacttc caaaagaga ttccccatta 360
cggcaatcac tggtcattca tttgcagacg accatccttt aaagcagcgc cttcacg 417
```

<210> 10

<211> 537

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2084238T6

<400> 10

```
ccttgacttt caatttgccc ttttcttttt tcttctcctt ctctttcgtt tttttgactt 60
tcctggcttt attttccatg tcctctagct ccgaattccc ctgaggggca gactcacaat 120
tcagagctcc ttggccagag tgagagctct tatcagacag accgtcagct tctatttctt 180
cagggccatc gtaggatttg tcaatggctg ctctaaagct ctcatgacg cctcggcctc 240
gaaccatgtg cggccggggc ctgtgaaagg gaaggtcatt ctctctgacc tcggccactg 300
cagtctgcag actctccaag gagctggact ttttcaaacc cagagttgga ccaaaatctt 360
tgcttgagga ttccgatttt tgtccagcca atgagtgaac cttgctttca tctggcacia 420
ggtccatgct cttcgaggct ttcaaattaa ttgattcagg ctgctggccg gtgtcacaga 480
tctgaagttg atgtgctgat ctggaaaata tactgctgaa tccacccag agtgtgg 537
```

<210> 11

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70155923V1

<400> 11

```
cctttctgga tcttcattct cctcttgggc ctttttctcc ttgactttca atttgccctt 60
tcccttttcc ttctccttct ctttcgtttt tttgactttc ctggcttaat ttcccatgtc 120
ctctagctcc gaattccctt gaggggcaga ctcaaatc agagctcctt ggccagagtg 180
aaagctctta tcagacagac cgtcagcttc aatttcttaa ggtccatcgt aggatttgca 240
aatggctgct ctaaagctct cattgaagcc tcggcctcga accatgtgcg gccggggcct 300
ttgaaaggga aggtcattct tcctgacctc ggccactgca gtttgacagc tctccaagga 360
gctggacttt tctaaacca gagttggccc aaaatctttg cttggaaatt ccgatttttg 420
tccagccaat gagtgaacct tgctttcatc tggcaccagg tccatgccct tcggggcctt 480
caaattaatt ggattcag 498
```

<210> 12

<211> 498

<212> DNA

PC-0032 US

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702457609T1

<400> 12

```
ttggctttat tttccacaca catctagctc aggggtttccc tgagggggcag actcacaatt 60
cagagctgtg tggccccgagt gagagctctt atcagacaga ccatcagctt ctgcctcttc 120
tggccccgtcg taagatttgt caatggctgc tgcagaagct ctcattgcag ccccgggcgt 180
cgcaccatgt gtggtctggg tctgtggaag ggcagatcat tcttcctgac ttcagccaca 240
gcagtctgta ggctctccaa ggaactggac tttttcaggc ccagggttgg accaaaatct 300
ttgcctggag agtctgacct gcgatcagcc agtgactgga ctttgctttc gtctggcaca 360
aggtccatgc tcttggaggc tttcaggtta attgattcgg gctgcccagc gtggtgtcac 420
aattctgaaa ttgacatgtt gatctggaaa atatcctgtg gaatccactc tagagctgtg 480
actgaagtct tcaaggcc
```

<210> 13

<211> 460

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 702458746T1

<400> 13

```
gtgtggcccc aagtgagagc tcttatcaga cagaccatca gcttctgcct cttctggccc 60
gtcgtaaagt ttgtcaatgg ctgctcgaa gctctcattg cagccccggc ctgcgacct 120
gtgtggtctg ggtctgtgga agggcagatc attctcctg acttcagcca cagcagctg 180
taggctctcc aaggaactgg actttttcag gcccagggtt ggacaaaaat ctttgcttgg 240
agagtctgac ctgcgatcag ccagtgactg gactttgctt tcgtctggca caaggccat 300
gctcttgagg gctttcaggt taattgattc gggctgcccc actggtgtca caattctgaa 360
attgacatgt tgatctggaa aatatcctgt ggaatccact ctagagctgt gactgaagtc 420
ttcaaggccc cattccagac tgggatgtgg tggcggggac
```

<210> 14

<211> 245

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701335936H1

<400> 14

```
aaaggccccg aaggacttgg attcactgtg ggaactagag attcttggat acatggacct 60
ggtcccattt ttgtaaaaaa taccctacca aaggagcag cagtaaagga tggccgccta 120
caatcaggag acagaatttt agaggtaaat ggcagagatg tcacaggaag aaccaggaa 180
gaacttgtgg ccatgctgag gagcactaag caggagaga cggtatcact ggtcattgcc 240
cgcca
```

<210> 15

<211> 260

<212> DNA

<213> Rattus norvegicus

PC-0032 US

<220>

<221> misc_feature

<223> Incyte ID No: 700639694H1

<400> 15

```
atTTTtGGtcc aaccctgggc ctgaaaaagt ccagttcctt ggagagccta cagactgctg 60
tggctgaagt caggaagaat gatctgccct tccacagacc cagaccacac atggtgcgag 120
gccgggggctg caatgagagc ttccgagcag ccattgacaa atcttacgac gggccagaag 180
aggcagaagc tgatggctctg tctgataaga gctctcgctc gggccacaca gctctgaatt 240
gtgagtctgc ccctcagggg 260
```

<210> 16

<211> 211

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700639694F6

<400> 16

```
gatctgccct tccacagacc cagaccacac atggtgcgag gccgggggctg caatgagagc 60
ttccgagcag ccattgacaa atcttacgac gggccagaag aggcagaagc tgatggctctg 120
tctgataaga gctctcgctc gggccacaca gctctgaatt gtgagtctgc ccctcagggg 180
aaccctgagc tagatgatgt ggaaaataaa g 211
```

<210> 17

<211> 276

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701191467H1

<400> 17

```
ctatagtcca caagataaaa ggaaagacct attgcttccc agtgatgggt gggctgagaa 60
tgaagtaccg ccgtccccgc caccacatcc cagtctggaa tggggccttg aagacttcag 120
tcacagctct agagtggatt cacaggatat ttccagatc accatgtcaa tttcagaatt 180
gtgacaccag tcgggcagcc cgaatcaatt aacctgaaag cctccaggag catggacctt 240
gtgccagacg aaagcaaagt ccagtcactg gctgat 276
```

<210> 18

<211> 555

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702771158H1

<400> 18

```
aagatgttcc accttcccct cctcagcacc acagagtggc ctaccaggaa atgggtagac 60
caggccccga gggggcagcc cagaccagta cccctaccgc gcccaggatc ccaggcagaa 120
gaaccccatg actgcagccg tgtagctgaa taccaccgag ctacagccag cccagaaggg 180
cgacatctga catcaccttc gccctcccta gactcttaag gccttctctc tgtccagaag 240
```

PC-0032 US

```
tctccatggt acagataggt tttgctcacc gaggttgcaa cacttgactg ctgaccagag 300
gggaaaagga gaggacagga ggggtgggaga gaaaggacag gaggcacaaa gacagcactg 360
cctgggattt gaaatatgtt tagaatctct cagttgaggg caagtggcag ttgagcaggc 420
aaataccaat ggagacatag cacacggggc ctccctggcg tacaccattc ataacttctc 480
catcttctaa gttctgtgtg gaatctagaa taacagggtt cagactctgg ccactggggg 540
gtgaagcact tggct 555
```

<210> 19
<211> 257
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 701266650H1

```
<400> 19
gaaaaatgca aaaaaaatta agattgacct aaagaaaggc cctgagggac ttggattcac 60
tgtggaacca gagattcttc tatacatggt cctggtecca tttctgtaaa aaacatctta 120
ccaaaaggag cagcagtaaa ggatggccgc ctacaatcag gggacagaat tttggaggta 180
aatggcagag atgttacagg aagaacccaa gaagaactcg tggccatgtt aaggagcacc 240
aagcagggag agacagt 257
```

<210> 20
<211> 5689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2582063CB1

```
<400> 20
atgaaagtga ccgtgtgctt cggacggacc cgggtggctg tgccgtgcgg ggacggccac 60
atgaaagttt tcagcctcat ccagcaggcg gtgaccgcgt accggaaggc catcgccaag 120
gatccaaaact actggataca ggtgcacgc ttggaacatg gagatggagg aatactagac 180
cttgatgaca ttcttttgta tgtagcagac gataaagaca gactggtagc agtgtttgat 240
gagcaggatc cacatcacgg aggtgatggc accagtcca gttccacggg taccagagc 300
ccagagatat ttggtagtga gcttggcacc aacaatgtct cagcctttca gccttaccac 360
gcaacaagtg aaattgaggt cacaccttca gtccttcgag caaatatgcc tcttcatgtt 420
cgacgcagta gtgaccacgc tctaattggc ctctccactt ctgtcagtga tagtaatttt 480
tcctctgaag agccttcaag gaaaaatccc acacgtgggt caacaacagc tggcttcttc 540
aagcagaaca ctgctgggag tcctaaaacc tgcgacagga agaaagatga aaactacaga 600
agcctcccgc gggatactag taactggtct aaccaatttc agagagacaa tgctcgctcg 660
tctctgagtg ccagtcacccc aatgggtggg aagtggctgg agaaacaaga acaggatgag 720
gatgggacag aagaggataa cagtcgtgtt gaacctgttg gacatgctga cacgggtttg 780
gagcatatac ccaacttttc tctggatgat atggtaaagc tcgtagaagt ccccaacgat 840
ggagggcctc tgggaatcca tgtagtgcct ttcagtgtc gaggcggcag aacctgggg 900
ttattagtaa aacgattgga gaaaggtggt aaagctgaac atgaaaatct ttttcgtgag 960
aatgattgca ttgtcaggat taatgatggc gaccttcgaa atagaagatt tgaacaagca 1020
caacatatgt ttcgccaagc catgcgtaca cccatcattt ggttccatgt ggttcttgca 1080
gcaaataaag agcagtatga acaactatcc caaagtgaga agaacaatta ctattcaagc 1140
cgttttagcc ctgacagcca gtatattgac aacaggagtg tgaacagtgc agggcttcac 1200
acggtgcaga gagcaccgcc actgaaccac ccgcctgagc agatagactc tactcaaga 1260
ctacctcata gcgcacaccc ctccgggaaa ccaccatccg ctccagcctc ggcacctcag 1320
aatgtattta gtacgactgt aagcagtggt tataacacca aaaaaatagg caagaggctt 1380
```

aatatccagc	ttaagaaagg	tacagaaggt	ttgggattca	gcataccttc	cagagatgta	1440
acaataggtg	gctcagctcc	aatctatgtg	aaaaacattc	tcccccgggg	ggcggccatt	1500
caggatggcc	gacttaaggc	aggagacaga	cttatagagg	taaattggagt	agatttagtg	1560
ggcaaatccc	aagaggaagt	tgtttcgctg	ttgagaagca	ccaagatgga	aggaactgtg	1620
agccttcttg	tctttcgcca	ggaagacgcc	ttccacccaa	gggaactgaa	tgcagagcca	1680
agccagatgc	agattccaaa	agaaacgaaa	gcagaagatg	aggatattgt	tcttacacct	1740
gatggcacca	gggaatttct	gacatttgaa	gtcccactta	atgattcagg	atctgcaggc	1800
cttggtgtca	gtgtcaaaagg	taaccggtca	aaagagaacc	acgcagattt	gggaatcttt	1860
gtcaagtcca	ttattaatgg	aggagcagca	tctaaagatg	gaaggcttcg	ggtgaatgat	1920
caactgatag	cagtaaatgg	agaatccctg	ttgggcaaga	caaaccaaga	tgccatggaa	1980
accctaagaa	ggtctatgtc	tactgaaggc	aataaacgag	gaatgatcca	gcttattgtt	2040
gcaaggagaa	taagcaagtg	caatgagctg	aagtcacctg	ggagccccc	tggacctgag	2100
ctgcccattg	aaacagcgtt	ggatgataga	gaacgaagaa	tttcccatc	cctctacagt	2160
gggattgagg	ggcttgatga	atcgcccagc	agaaatgctg	ccctcagtag	gataatgggt	2220
gagtcaggta	aataccagct	gtcccctaca	gtgaatatgc	ccaagatga	cactgtcatt	2280
atagaagatg	acaggttgcc	agtgttcct	ccacatctct	ctgaccagtc	ctcttcagc	2340
tcccatgatg	atgtggggtt	tgtgacggca	gatgctggta	cttgggcca	ggctgcaatc	2400
agtgattcag	ccgactgctc	tttgagtcca	gatgttgatc	cagttcttgc	ttttcaacga	2460
gaaggatttg	gacgtcagag	tatgtcagaa	aaacgcacaa	agcaattttc	agatgccagt	2520
caattggatt	tcgttaaaac	acgaaaatca	aaaagcatgg	atttaggtat	agctgacgag	2580
actaaactca	atacagtgga	tgaccagaaa	gcaggttctc	ccagcagaga	tgtgggtcct	2640
tccctgggtc	tgaagaagtc	aagctcgttg	gagagtctgc	agaccgcagt	tgccgaggtg	2700
actttgaatg	gggatattcc	tttccatcgt	ccacggccgc	ggataatcag	aggcagggga	2760
tgcaatgaga	gcttcagagc	tgccatcgac	aaatcttatg	ataaaccgc	ggtagatgat	2820
gatgatgaag	gcatggagac	cttggaagaa	gacacagaag	aaagttcaag	atcagggaga	2880
gagtctgtat	ccacagccag	tgatcagcct	tcccactctc	tggagagaca	aatgaatgga	2940
aaccaagaga	aagggtgataa	gactgataga	aaaaaggata	aaactggaaa	agaaaagaag	3000
aaagatagag	ataaggagaa	ggataaaaatg	aaagccaaga	agggaatgct	gaagggtctg	3060
ggagacatgt	tcaggtttgg	caaacatcga	aaagatgaca	agattgagaa	aacgggtaaa	3120
ataaaaatac	aggaatcctt	tacatcagaa	gaggagagga	tacgaatgaa	gcaggagcag	3180
gagaggattc	aagccaaaac	tcgagaattt	agggaacgac	aagctcgaga	gcgtgactat	3240
gctgaaattc	aagattttca	tcggacattt	ggctgtgatg	atgagttaat	gtatggggga	3300
gtttcttctt	atgaaggttc	catggctctc	aacgctagac	ctcagagccc	acgagaaggg	3360
catatgatgg	atgctttgta	tgcccaagtc	aagaagccgc	ggaattccaa	accctcacct	3420
gtagacagta	acagatcaac	tcctagcaat	catgatcgga	tacagcgtct	gaggcaagaa	3480
tttcagcaag	caaagcaaga	tgaagatgta	gaagatcgtc	ggcggaccta	tagttttgag	3540
caaccctggc	cgaacgcacg	gccggcgacg	cagagcgggc	gacactcggg	gtccgtggag	3600
gtgcagatgc	agcggcagcg	gcaggaggag	cgcgagagct	cccagcaggc	ccagcgccag	3660
tacagctctc	tgccctcgga	aagcaggaat	agtgccagct	cggctctcca	ggactcttgg	3720
gagcagaact	actcccctgg	ggaaggcttc	cagagtgcc	aagagaacct	caggactactc	3780
agctaccaag	gctccaggaa	cggctacctg	ggaggacatg	gcttcaacgc	cagggtcatg	3840
ctggaaactc	aggagctcct	tcgccaggaa	cagaggcgga	aggagcagca	gatgaagaag	3900
cagcctcctt	ccgaggggcc	cagcaactat	gactcgtata	agaaagtcca	ggacccagct	3960
tacgcccctc	ccaaggggcc	cttcgggcaa	gatgtgcccc	cctccccttc	tcaggttgcg	4020
aggctgaaca	gacttcagac	tcctgagaaa	gggaggccct	tctattcctg	agcacgcaaa	4080
taacggatgc	ttcatgtcgc	gcaataaaaag	acattttcct	atgaagactt	gtattttggg	4140
agttttttta	aaacctcgat	ggtactatgg	agtatttctg	ttgttggtat	cagtgccttt	4200
aagcggtgta	ggcaaagaaa	tggaaaggct	taatgtcttt	gccactatgt	ctcaagtgtc	4260
tgtttcatgg	aaggatttcc	caccctgtga	caatcatctg	tttgagggtg	tcatatgtct	4320
tgcgccctct	cacagtacca	ggaatctcgg	ccctactcat	gagttgtccg	cggcttggtt	4380
gtaacatccc	tgaccacttt	gcagtgacaa	attcacctga	agtggaggat	gacgtgcggc	4440
cctgtttctc	cctctaagtt	ctcttagcta	tgggatgaca	tcttagtctc	tggtggagga	4500
aaagtgggcg	acatacacca	aaaattgggg	ctttctggta	cttcacagca	cagccatttg	4560
tcgtactttg	tcatacactgt	ggttttctct	ttcctttctc	agctctttgt	gacgggagag	4620
tcggtcatcc	tattacagaa	gctaagccat	agtccaacat	tgtttggtca	ccatgggggt	4680
ccttttgtaa	ctgccttatg	actcaacatt	accaataaag	tgatgatcct	ggtctgcgtt	4740

PC-0032 US

```
tatacatacg cttgttcggt cctgttcctg acacgtgggt tgagtcacca cagctctgtg 4800
tggggaacgt gggagacagg agtggctcct gccgggggaa gctgggcctg ccattggccc 4860
tgtgtctatc atgaggggag agctaagaaa gaaattctcc taggaagagc tcatggccca 4920
gtacatccta gtaattatct taattagttt ttgttctgac agcttgtcag gaagggcaca 4980
gaatgggaca gagataaacc agacagtcac tttgatctgc tctctacggt ttttcaagtc 5040
agaggcaatt gatgcttgct taatgcatcc acacactgca tgtctgactg gcgatgccac 5100
gctcctaagt agttctgcca tgaaacataa aagacaaagg aaaagccgtt acacatcaca 5160
cagagaacat tttcgggtcc cacagcgggt gtggcaggaa gctcactctc gcgtcagtat 5220
tagagtgtgt gtgtgggtct cggggatctc ggtggctccc atcttctctc attgttctga 5280
acatcctgta ttgtaaacca tggctggggt gctaaagtgc ctgtgaatcc cgatgtggaa 5340
aaagctggag gtgaaagctc agcataccat gtatttactt taaaaacaga aaaaaagaca 5400
tgtatggata tgtctatctt ttttttattg gcacattgta tttttgtgtt gacttgtttt 5460
tagaaatgat gtgtccacac acgtacccgt gtctcttctg catttctgtg tcatggttct 5520
gtttcttaat cacgtgcggc ggtgtctaa gtgtgttacc agtgtacgcg cagtgcctt 5580
ggatgacagt ggctctttct cacagcctcc cctgagctgt gagaaacagc tttctctgta 5640
catatgcaac tcctaataaa aggcataatt cttctgttta aaaaaaaaaa 5689
```

<210> 21

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2582063H1

<400> 21

```
cagcggtggt ggcaggaagc tcactctcgc gtcagtatta gagtgtgtgt gtgggtctcg 60
gggatctcgg tggctcccat cttccttcat tgttctgaac atcctgtatt gtaaaccatg 120
gctgggggtgc taaagtgcct gtgaatcccg atgtggaaaa agctggagggt gaaagctcag 180
cataccatgt atttacttta aaaacagaaa aaaagacatg tatggatatg tctatctttt 240
ttttattgg
```

<210> 22

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7246093H1

<400> 22

```
cccgggtggt cgtgccgtgc ggggacggcc acatgaaagt ttccagcctc atccagcagg 60
cgggtgacccg ctaccggaag gccatcgcca aggatccaaa ctactggata caggtgcac 120
gcttggaaca tggagatgga ggaatactag accttgatga cattctttgt gatgtacag 180
acgataaaga cagactggta gcagtgtttg atgagcagga tccacatcac ggaggtgatg 240
gcaccagtgc cagttccacg ggtaccaga gccagagat atttggtagt gagcttgga 300
ccaacaatgt ctcagccttt cagccttacc aagcaacaag tgaaattgag gtcacacctt 360
cagtccttcg agcaaatatg cctcttcatg ttcgacgcag tagtgacca gctctaattg 420
gcctctccac ttctgtcagt gatagtaatt tttcctctga agagccttca aggaaaaatc 480
ccacacgctg gtcaacaaca gctggcttcc tcaagcagaa cactgctggg agtcctaaaa 540
cctgcgaca
```

<210> 23

<211> 502

PC-0032 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7978420H1

<400> 23

```
ggggagccca gagatatttg gtagtgagct tggcaccaac aatgtctcag cctttcagcc 60
ttaccaagca acaagtgaaa ttgaggtcac accttcagtc cttcgagcaa atatgcctct 120
tcatgttcga cgcagtagtg acccagctct aattggcctc tccacttctg tcagtgatag 180
taatttttcc tctgaagagc cttcaaggaa aaatcccaca cgctgggtcaa caacagctgg 240
cttcctcaag cagaacactg ctgggagtcc taaaacctgc gacaggaaga aagatgaaaa 300
ctacagaagc ctcccgcggg atactagtaa ctggtctaac caatttcaga gagacaatgc 360
tcgctcgtct ctgagtgcc gtcacccaat ggtgggcaag tggctggaga aacaagaaca 420
ggatgaggat gggacagaag aggataacag tcgtgttgaa cctgttggac atgctgacac 480
gggtttggag catataccca ac                                     502
```

<210> 24

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 55040412H1

<400> 24

```
gctgtgcatg aagacgggac agaagaggat aacagtcgtg ttgaacctgt tggacatgct 60
gacacggggtt tggagcatat acccaacttt tctctggatg atatggtaaa gctcgcagaa 120
gtccccaacg atggaggggc tctgggaatc catgtagtgc ctttcagtgc tcgaggcggc 180
agaaccctgg ggttattagt aaaacgattg gagaaagggtg gtaaagctga acatgaaaat 240
ctttttcgtg agaatgattg cattgtcagg attaatgatg gcgaccttcg aaatagaaga 300
tttgaacaag cacaacatat gtttcgccaa gccatgcgta caccatcatc ttggttccat 360
gtgggttcctg cagcaaataa agagcagtat gaacaactat cccaaagtga gaagaacaat 420
tactattcaa gccgttttag ccctgacagc cagtatatgg acaacaggag tgtgaacagt 480
gcagggctgc acacgggtgca gagagcacc cgactgaacc acccgctga gcagatagac 540
tctactcaa gactacctca tagcgcacac ccctcgggaa aaccaccatc cgctccatcc 600
tcatggacag c                                     611
```

<210> 25

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2929484F6

<220>

<221> unsure

<222> 405, 441

<223> a, t, c, g, or other

<400> 25

```
gagcaccctg actgaaccac ccgcctgagc agatagactc tcaactcaaga ctacctcata 60
```


PC-0032 US

```
gcgcacaccc ctcgggaaaa ccaccatccg ctccagcctc ggcacctcag aatgtattta 120
gtacgactgt aagcagtggg tataacacca aaaaaatagg caagaggctt aatatccagc 180
ttaagaaagg tacagaagggt ttgggattca gcatcacttc cagagatgta acaatagggtg 240
gctcagctcc aatctatgtg aaaaacattc tccccggggg ggcggccatt caggatggcc 300
gacttaaggc aggagacaga cttatagagg taaatggagt agatttagtg ggccaatccc 360
aagaggaagt tgtttcgctg ttgagaagca ccaagatgga aggantgtga gcttctggtc 420
tttcgccagg aagacgcttc nacccaaggg aactgaatgc ag 462
```

<210> 26

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5627320R8

<400> 26

```
acactgcgtg gttctctttt gaccggttac ctttgacact gacaccaagg cctgcagatc 60
ctgaatcatt aagtgggact tcaaagtcca gaaatccct ggtgccatca ggtgtaagaa 120
caatatcctc atcttctgct ttcgtttctt ttggaatctg catctggctt ggatctgcat 180
tcagttccct tgggtggaag gcgtcttccct ggcgaaagac cagaaggctc acagttcctt 240
ccatcttggt gcttctcaac agcgaaacaa ctctctcttg ggatttgccc actaaatcta 300
ctccatttac ctctataagt ctgtctcctg acttaagtcg gccatcctga atggccgccc 360
ccgggggaga atgtt 375
```

<210> 27

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3209128F6

<400> 27

```
cgccttccac ccaagggaac tgaaagcaga agatgaggat attgttctta cacctgatgg 60
caccaggaaa tttctgacat ttgaagtccc acttaatgat tcaggatctg caggccttgg 120
tgtcagtgtc aaaggtaacc ggtcaaaaga gaaccacgca gatttgggaa tctttgtcaa 180
gtccattatt aatggaggag cagcatctaa agatggaagg cttcgggtga atgatcaact 240
gatagcagta aatggagaat ccctgttggg caagacaaac caagatgcca tggaaaccct 300
aagaaggctc atgtctactg aaggcaataa acgaggaatg atccagctta ttgttgcaag 360
gagaataagc aagtgcaatg agctgaagtc acctgggagc cccctggac ctgagctgcc 420
cattgaaaca gcgttggtat atagagaacg aagaatttcc cattccctct acagtgggat 480
tgaggggctt gatgaatcgg ccagcagaaa tgctggcctc agtaggataa tgggtgagtc 540
agg 543
```

<210> 28

<211> 220

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349248H1

PC-0032 US

<220>

<221> unsure

<222> 167

<223> a, t, c, g, or other

<400> 28

aatatgcccc	aagatgacac	tgtcattata	gaagatgaca	ggttgccagt	gcttcctcca	60
catctctctg	accagtcctc	ttccagctcc	catgatgatg	tggggtttgt	gacggcagat	120
gctgggtactt	gggccaaggc	tgcaatcagt	gattcagccg	actgctnttt	gagtccagat	180
gttgatccag	ttcttgcttt	tcaacgagaa	ggatttggac			220

<210> 29

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7019961H1

<400> 29

gtgcttcctc	cacatctctc	tgaccagtcc	tcttcagct	cccatgatga	tgtgggggttt	60
gtgacggcag	atgctggtac	ttggggccaag	gctgcaatca	gtgattcagc	cgactgctct	120
ttgagtccag	atgttgatcc	agttcttgc	tttcaacgag	aaggatttgg	acgtcagagt	180
atgtcagaaa	aacgcacaaa	gcaattttca	gatgccagtc	aattggattt	cgttaaaaca	240
cgaaaaatcaa	aaagcatgga	tttaggtata	gctgacgaga	ctaaactcaa	tacagtggat	300
gaccagaaaag	caggttctcc	cagcagagat	gtgggtcctt	ccctgggtct	gaagaagtca	360
agctcgttgg	agagtctgca	gaccgcagtt	gccgaggtga	ctttgaatgg	ggatattcct	420
ttccatcgtc	cacggccgcg	gataatcaga	ggcaggggat	gcaatgagag	cttcagagct	480
gccatcgaca	aatcttatga	taaaccgcg	gtagatgatg	atgatgaagg	catggagacc	540
ttggaagaag	acacagaaga	cagttcacga	tcagggagag	agtctgtatc	cacagccagg	600
atcaggcttc	cac					613

<210> 30

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6303175H2

<400> 30

tcgcgatcta	gaacaaagaa	aagaagaaag	atagagataa	ggagaaggat	aaaatgatag	60
ccaagaagg	aatgctgaag	ggcttgggag	acatgttcag	gtttggcaaa	catcgaaaag	120
atgacaagat	tgagaaaacg	ggtaaaataa	aaatacagga	atcctttaca	tcagaagagg	180
agaggatacg	aatgaagcag	gagcaggaga	ggattcaagc	caaaactcga	gaatttaggg	240
aacgacaag						249

<210> 31

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PC-0032 US

<223> Incyte ID No: 2549906F6

<220>

<221> unsure

<222> 137, 164, 463

<223> a, t, c, g, or other

<400> 31

```
aggagaagga taaaatgaaa gccagaagga gaatgctgaa gggcttggga gacatgttca 60
ggtttgcaac acatcgaaaa gatgacaaga ttgagaaaac gggtaaaata aaaatacagg 120
aatcctttac atcagangag gagaggatac gaatgaagca ggancaggag aggattcaag 180
ccaaaactcg agaatttagg gaacgacaag ctcgagagcg tgactatgct gaaattcaag 240
attttcatcg gacatttggc tgtgatgatg agttaatgta tgggggagtt tcttcttatg 300
aagggtccat ggctctcaac gctagacctc agagcccacg agaagggcat atgatggatg 360
ctttgtatgc ccaagtcaag aagccgcgga attccaaacc ctcacctgta gacagtaaca 420
gatcaactcc tagcaatcat gatcggatac agcgtctgag gcnagaattt cagcaagcaa 480
agcaagatga agatgtagaa g                                     501
```

<210> 32

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1945452H1

<400> 32

```
gttccatggc tctcaacgct agacctcaga gccacgaga agggcatatg atggatgctt 60
tgtatgccca agtcaagaag ccgcggaatt ccaaaccctc acctgtagac agtaacagat 120
caactcctag caatcatgat cggatacagc gtctgaggca agaatttcag caagcaaagc 180
aagatgaaga tgtagaagat cgtcggcgga cctatagttt tgagcaaccc tggccgaacg 240
cacggccggc gacgcagagc gggcg                                     265
```

<210> 33

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2549906T6

<220>

<221> unsure

<222> 77, 194, 196, 441, 466

<223> a, t, c, g, or other

<400> 33

```
gttatttgcg tgctcaggaa tagaagggcc tccctttctc aggagtctga agtctgttca 60
gcctcgcaac ctgaganggg gaggggggca catcttgccg gaagggcccc ttgggagggg 120
cgtaactggg gtccctggact ttcttatacg agtcatagtt gctgggcccc tcggaaggag 180
gctgcttctt catnancgtc tccttcgcgc tctgttcctg gcgaaggagc tcctgagttt 240
ccagcatgac cctggcgctt aagccatgtc ctcccaggta gccgttcctg gagccttggt 300
agctggagta cctgggggtt tctttggcac tctggaagcc ttccccaggg gagtagttct 360
gtcctcaaga gtccctgggag accgagctgg catttttctt gctttgccga ggcagagagc 420
```

PC-0032 US

tgtactggcg ctgggcctgt ngggagtctc gcgctcctcc tgccgntgc

469

<210> 34

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71009002V1

<400> 34

caggcccagc	gccagtacag	ctctctgcct	cggcaaagca	ggaaaaatgc	cagctcggtc	60
tcccaggact	cttgggagca	gaactactcc	cctggggaag	gcttccagag	tgccaaagag	120
aaccccaggt	actccagcta	ccaaggctcc	aggaacggct	acctgggagg	acatggcttc	180
aacgccaggt	catgctggaa	actcaggagc	tccttcgcca	ggaacagagg	cggaaggagc	240
agcagatgaa	gaagcagcct	ccttccgagg	ggcccagcaa	ctatgactcg	tataagaaaag	300
tccaggaccc	cagttacgcc	cctcccaagg	ggcccttcg	gcaagatgtg	ccccctccc	360
cttctcaggt	tgcgaggctg	aacagacttc	agactcctga	gaaagggagg	cccttctatt	420
cctgagcacg	caaataacgg	atgcttcatg	tcgcgcaata	aaagacattt	tcctatgaag	480
acttgatttc	cgggagtttt	ttaaaaacct	cgatggtact	atggagtata	ctggtcgtgg	540
tatcagtgcc	tttaagcg					558

<210> 35

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 71008521V1

<220>

<221> unsure

<222> 605

<223> a, t, c, g, or other

<400> 35

ttccccacac	agagctgtgg	tgactcaacc	cacgtgtcag	gaacaggacc	gaacaagcgt	60
atgtataaac	gcagaccagg	atcatcactt	tattggtaat	gttgagtcac	aaggcagtta	120
caaaaggacc	cccatggtga	ccaaacaatg	ttggactatg	gcttagcttc	tgtaatagga	180
tgaccgactc	tcccgtcaca	aagagctgag	aaaggaaaga	gaaaaccaca	gtgatgacaa	240
agtacgacaa	atggctgtgc	tgtgaagtac	cagaaagccc	caatttttgg	tgtatgtcgc	300
ccacttttcc	tccaccagag	actaagatgt	catcccatag	ctaagagaac	ttagagggag	360
aaacagggcc	gcacgtcatc	ctccacttca	ggtgaatttg	tcactgcaag	tggtgcaggg	420
atgttacaac	caagccgcgg	acaactcatg	agtagggccg	agattcctgg	tactgtggag	480
aggcgcagag	catatgaaca	cctcaaacag	atgattgtca	cagggtggga	aatccttcca	540
tgaaacagac	acttgagaca	tagtggcaaa	gacattaagg	ccttccattt	ctttgcctac	600
accgnttaaa	ggcactgata	ccaacaacag	aa			632

<210> 36

<211> 646

<212> DNA

<213> Homo sapiens

<220>

PC-0032 US

<221> misc_feature

<223> Incyte ID No: 71010168V1

<400> 36

```
cttcctagga gaatttcttt cttagctctc ccctcatgat agacacaggg ccaatggcag 60
gccagcttc ccccggcagg agccactcct gtctcccacg ttccccacac agagctgtgg 120
tgactcaacc cacgtgtcag gaacaggacc gaacaagcgt atgtataaac gcagaccagg 180
atcatcactt tattggtaat gttgagtcac aaggcagtta caaaaggacc cccatgggtga 240
ccaaacaatg ttggactatg gcttagcttc tgtaatagga tgaccgactc tcccgtcaca 300
aagagctgag aaaggaaaga gaaaaccaca gtgatgacaa agtacgacaa atggctgtgc 360
tggatgaagta ccagaaagcc ccaatttttg gtgtatgtcg ccacttttc ctccaccaga 420
gactaagatg tcatcccata gctaagagaa cttagaggga gaaacagggc cgcacgtcat 480
cctccacttc aggtgaattt gtcactgcaa gtggtgcagg gatgttataa ccaagccgcg 540
gacaactcat gagtagggcc gagattcctg gtactgtgga gaggcgcaga gcatatgaac 600
acctcaaaca gatgatgtcc cagggtggga aatccttcca tgaaac 646
```

<210> 37

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 70090181V1

<400> 37

```
agctttcacc tccagctttt tccacatcgg gattcacagg caatttagca cccagccat 60
ggtttacaat acaggatgtt cagaacaatg aaggaagatg ggagccaccg agatccccga 120
gaccacaca cacactctaa tactgacgcg agagtgaact tcctgccacc accgctgtgg 180
gacccgaaaa ttttctctgt gtgatgtgta acggcttttc ctttgtcttt tatgtttcat 240
ggcagaacta cttaggagcg tggcatcgcc agtcagacat gcagtgtgtg gatgcattag 300
acaagcatca attgcctctg acttgaaaaa ccgtagagag cagatcaaaa tgactgtctg 360
gtttatctct gtcccattct gtgcccttcc tgacaagctg tcagaacaaa aactaattaa 420
aataattact aggatgtact gggccatgag ctcttcctag gagaaattct ttcttagctc 480
tcccctcatg atagacac 498
```

<210> 38

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6833928H1

<400> 38

```
cttgtcagga agggcacaga atgggacaga gataaaccag acagtcattt gatctgctct 60
ctacggtttt tcaagtcaga ggcaattgat gcttgtctaa tgcattccaca cactgcatgt 120
ctgactggcg atgccacgct cctaagtagt tctgccatga aacataaaaag acaaaggaaa 180
agccgttaca catcacacag agaacatttt cgggtcccac agcgggtggtg gcaggaagct 240
cactctcgcg tcagtattag agtgtgtgtg tgggtctcgg ggatctcggg ggctcccatc 300
ttccttcatt gttctgaaca tcctgtattg taaaccatgg ctgggggtgct aaagtgcctg 360
tgaatcccga tgtggaaaaa gctggagggtg aaagctcagc ataccatgta tttactttta 420
aaacagaaaa aaagacatgt atggatatgt ctattttttt tttatgggca catggatttt 480
ttgtgtggac ttgttttttag aaatgatgtg tccacacacg taccctgtgc tcttctgcac 540
ttctgtgtca tggctctggt tcttaatcac gt 572
```

PC-0032 US

<210> 39
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70089663V1

<400> 39
gctcataagt agttctgcc tgaacataa aagacaaagg aaaagccgtt acacatcaca 60
cagagaacat ttctcgggtcc cacagcgggt gtggcaggaa gctcactctc gcgtcagtat 120
tagagtgtgt gtgtgggtct cggggatctc ggtggctccc atcttccttc attgttctga 180
acatcctgta ttgtaaacca tggctggggt gctaaagtgc ctgtgaatcc cgatgtggaa 240
aaagctggag gtgaaagctc agcataccat gtatttactt taaaaacaga aaaaaagaca 300
tgtatggata tgtctatttt ttttttattg gcacattgta tttttgtgtt gacttgtttt 360
tagaaatgat gtgtccacac acgtaccctg gtctcttctg catttctgtg tcatggttct 420
gtttcttaat cacgtgcggc ggtgtctaag tgggtgttacc agtgtacgcg cagtgcacct 480
ggatgacagt ggctcttgct cacagcctcc cctgagctgt gagacacagc tttctctgta 540
catatgcaac 550

<210> 40
<211> 514
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702231139H1

<400> 40
aagcaatttt caaatgccag tcaattggat ttcgttaaaa cacgaaaatc aaaaagcatg 60
gatttaggta tagctgacga gaactaaact caatacagt gatgaccaga gagcaggctc 120
ccccaataga gatgtgggac cctccttggg tctgaagaaa tccagctctt tagaaagtct 180
gcagacggct gttgctgagg tgaccctgaa tgggaacatt cctttccacc gccacggcc 240
acgaatcatc cgaggaagg gctgcaacga gagcttcaga gccgccattg acaagtccta 300
cgataagccc atgggtggat acgacgacga aggcattggag accttggaag aagacacaga 360
agaaagttca aggtcaggga gggagtcctg gtccacgtcc agtgatcagc cttectattc 420
tctggagaga caaatgaatg gagaccaga gaagaggga aaggcagaga agaaaaagga 480
caaagccgga aaggataaga agaaagaccg agag 514

<210> 41
<211> 544
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304F6

<400> 41
cctgaatggg aacattcctt tccaccgccc acggccacga atcatccgag gaaggggctg 60
caacgagagc ttcagagccg ccattgacaa gtcctacgat aagcccatgg tggatgacga 120
cgacgaaggc atggagacct tggaagaaga cacagaagaa agttcaaggt cagggaggga 180
gtccgtgtcc acgtccagt atcagccttc ctatttctct gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300

PC-0032 US

agaccgagag aaggagaagg ataaactgaa agccaagaag gggatgctga aaggcttggg 360
ggacatgttc agcctggcca aactgaagcc ggagaagaga tgaacagcat gccagactca 420
aactgtcttg gacagcaciaa gttgcacaat tgtttttttaa aagcacgggtg tctgggctgt 480
ggctcagtct agagtgcctg cctgggtgtac acaaagccgt gggctcaatc cccagcacc 540
tata 544

<210> 42
<211> 272
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700330856H1

<400> 42
tagattcagc gggcaagtcc caggaggaag ttgtttccct gttgagaagc accaagatgg 60
aggggaccgt gagccttctg gtctttcgtc aagaagaggc tttccagcca agggaaatga 120
atgccgaacc cagccagatg cagagtccaa aagaaacgaa agccgaagac gaggacattg 180
ttctcacacc tgacgggtacc agggagtctc tgactttcga agttccactg aatgactcag 240
ggtctgcagg gcttggtgtc agcgtcaagg gg 272

<210> 43
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700273304H1

<400> 43
actgaatggg aacattcctt tccaccgccc acggccacga atcatccgag gaaggggctg 60
caacgagagc ttcagagccg ccattgacaa gtcctacgat aagcccatgg tggatgacga 120
cgacgaaggc atggagacct tggaagaaga cacagaagaa agttcaaggc caggagaggga 180
gtccgtgtcc acgtccagtg atcagccttc ctattctctg gagagacaaa tgaatggaga 240
cccagagaag agggacaagg cagagaagaa aaaggacaaa gccggaaagg ataagaagaa 300

<210> 44
<211> 300
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701517518H1

<400> 44
caggatctca cactccctct acagtgggat cgaggggctg gatgagtctc ccaccaggaa 60
tgccgcactc agcaggataa tgggtaaatg ccagctctcc ccaaccgtga acatgccaca 120
tgatgacact gtcattgattg aagatgacag gctgcctgtg ctccctctc acctctctga 180
ccagtcctcc tccagctccc atgatgacgt gggattcata atgacagaag caggcacgtg 240
ggccaaggct accatcagtg actcagccga ctgctcattg actccagatg ttgatccggt 300

<210> 45
<211> 544

PC-0032 US

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701834089T1

<220>

<221> unsure

<222> 11-12, 17, 130-191

<223> a, t, c, g, or other

<400> 45

```
aaacctgagt nnccttnaca acccaaagta aattttattgt ttggatttta aaaaaacttt 60
ctttgagaca cgtttcgtgt atcccaggct ggcctcgaac actacgtatg caggatgacc 120
ttgaacttcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnn ntatagggtg ctggggattg agcccacggc tttgtgtaca ccaggcaggc 240
actctagact gagccacagc ccagacaccg tgcttttaaa aaacaattgt gcaacttggtg 300
ctgtccaaga cagtttgagt ctggcatgct gttcatctct tctccggctt cagtttggtc 360
aggctgaaca tgtccccaac gcctttcagc atccccttct tggctttcag tttatccttc 420
tccttctctc ggtctttctt cttatccttt cggctttgtt cctttttctt ctctgccttg 480
tccctcttct ctgggtctcc attcatttgt ctctccagag aataggaagg ctgatcactg 540
gacg 544
```

<210> 46

<211> 196

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701480437H1

<400> 46

```
ctctctctct ctcatccttg actgactaac ttctttgctt tattgccaga caaagcagga 60
agaatgccag ctctgtatca caggattcct gggaacagaa ctacgccctt ggtgaaggct 120
tccagagtgc caaggagaac cccagggtatt ccagttacca gggctccagg aacggctatc 180
taggtggcca tggctt 196
```

<210> 47

<211> 273

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701190235H1

<400> 47

```
gcagatgtaa cgagttgcgg tctcctggga gccccgctgc acccgatctg cccatacaaa 60
cagagttgga tgacagacaa cgcaggatct cacactcctt ctacagtggg atcgatgggc 120
tggatgagtc tcccaccagg aatgccgcac tcagcaggat aatgggtaaa tgccagctct 180
ccccaaccgt gaacatgcta catgatgaca ctgtcatgat tgaagatgac aggctgcctg 240
tgctcactcc tcacctctct gaccagtccct cct 273
```

<210> 48

PC-0032 US

<211> 248
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700939688H1

<400> 48
cagagaagag ggacaaggca gagaagaaaa aggacaaagc cggaaaggat aagaagaaag 60
accgagagaa ggagaaggat aaactgaaag ccaagaaggg gatgctgaaa ggcttggggg 120
acatgttcag cctggccaaa ctgaagccgg agaagagatg aacagcatgc cagactcaa 180
ctgtcttgga cagcacaagt tgcacaattg ttttttaaaa gcacggtgtc tgggctgtgg 240
ctcagtct 248

<210> 49
<211> 351
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 700939688F6

<220>
<221> unsure
<222> 337
<223> a, t, c, g, or other

<400> 49
cagagaagag ggacaaggca gagaagaaaa aggacaaagc cggaaaggat aagaagaaag 60
accgagagaa ggagaaggat aaactgaaag ccaagaaggg gatgctgaaa ggcttggggg 120
acatgttcag cctggccaaa ctgaagccgg agaagagatg aacagcatgc cagactcaa 180
ctgtcttgga cagcacaagt tgcacaattg ttttttaaaa gcacggtgtc tgggctgtgg 240
ctcagtctag aagatgcctg cctggctgta cacaagagcc agtggagctc aagtccccag 300
acagccctat agaaccagcg tgtggtagac acatgcncctg tcacccagc a 351

<210> 50
<211> 571
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702582937T1

<400> 50
cacttttagca acccagcctt ggttttacaat acaggatggt cagaccaaca gatgaacggc 60
gggaacacgg agggcctcgt gccacaggca tgcacggaga atgggactcc cggtgctcag 120
agggacatcg acaggctctc gagtgggatg gctctccttc tgtttgtgaa taaacagcag 180
agtcactcag taatgttggc ctgctcaggt cgggacatgg tatgaggata taggagacca 240
aatcctgact gcaacctcaa aagctgtgtt gaggttgatt ctcagaatcc caagtgactg 300
acctttttcc ttgatccac tctgtgcctc ccttgacaac ctacggtgac acgaagtaaa 360
gtaaggactg gatagaccgg cctaagctcc tccagagagt cttccctcag actcctatct 420
ccttcctcgg ggtgcgtaca catgggccac tcccatgcc cttgttccc agtgtcatga 480
gtgactgaaa ctgaacgcat gtacttatag aaccactgac tagaaatcgg ctgtagatat 540

gggtgggtgg agttataaaag ggcagttgga a

571

<210> 51

<211> 694

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700299037F6

<400> 51

```

ctctaggggtg gtagtgaaga agctaagcca taggccagtg ccgttggttc tgggggggtga 60
gggtaactttt ccaactgcct tataactcca ccacccatat cacagcgatt ctagtcagtg 120
tttataagta catgcgttca gtttcagtca ctcatgacac tcgggaacaa ggggcatggg 180
agtggcccat gtgtacgcac cccgaggaag gagataggag ctgaggaag actctctgga 240
ggagcttagg ccggtctatc cagtccttac tttacttcgt gtcaccgtag gttgtcaagg 300
gaggcacaga gtgggacaag gaaaaaggtc agtcacttgg gattctgaga atcaacctca 360
acacagcttt tgaggttgca gtcaggattg gtctcctata tcctcatacc atgtcccgac 420
ctgacgagggc caacattact gagtgactct gctgtttatt cacaacaga aggagagcca 480
tcccactcga ggacctgtcg atgtccctct gaggaccggg agtcccattc tccgtgcatg 540
cctgtggcac gaggcctccg tgttcccgcc gttcatctgt tggctctgaa atcctgtatg 600
taaaccaagg ctgggttgct aaagtgcctg agaatctcga tataaaaaac aaaaaacaaa 660
aaaatccttg gggcaaaagc tcagagtacc atgt 694

```

<210> 52

<211> 110

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701246488H1

<400> 52

```

gattgaagat gacaggctgc ctgtgctccc tcctgacctc tctgaccagg cgtcctccag 60
ctcccatgat gacgtgggat tcataatgac agaagcaggc acgtgggcca 110

```

<210> 53

<211> 578

<212> DNA

<213> Canis familiaris

<220>

<221> misc_feature

<223> Incyte ID No: 702759912H1

<400> 53

```

atgaaagtga ccgtgtgctt cgggcggacc cgggtggtcg tgccgtgagg ggacgggcac 60
atgaaagtgtt tcagcctcat ccagcaagcg gtgaccgct accggaaggc catcgccaag 120
gatccaaact actggataca ggtgcaccga cttgaacatg gagatggagg aatactagac 180
cttgatgaca ccctctgtga ttagcagat gataaagaca gactggtagc agtgtttgat 240
gagcaagatc cacatcatgg aggtgatggc accagtgccg gctccacagg taccagagt 300
ccagagatat ttggcagtga gcttggcacc aacaatgttt cagcctttca gccttatcaa 360
gctacaagtg aaattgaggt cacaccttca gttcttcgtg caaatatgcc tcttcatgtc 420
cgacgaagca gtgacccggc tttaattggc ctttcaactt ccatcagtga cactaatatt 480

```

PC-0032 US

ccttctgaag agccttcacg gaagaacccc acacgttggg caacaacagc tggctttctg 540
aagcaaaaca ctgctggcag ccctaatact gtgacaaa 578

<210> 54
<211> 293
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700112340H1

<400> 54
gggcatttga ctgagatgtc ccaaagggtgc ctattggaag agcattatga tccaaactac 60
tggatacagg tgcacgcgtt ggagcatgga gatggaggga ttctagacct ggatgacatc 120
ctctgtgacg ttgctgatga caaagacaga ctggtagcag tatttgatga acaggatccc 180
caccatggag gagatggtac cagcgccagc tccacgggaa cccagagtcc agagatattc 240
ggcagtgagc tgggcaccaa caatgtttct gcttttcagc cttatcaagc cac 293

<210> 55
<211> 233
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700827810H1

<400> 55
cgcgccggc atcgagagt ggtcggcact cgggtgtccgt ggagggttcaa gtacaacggc 60
agcgccagga ggagcgagag agcttcacagc agggccagcg ccagtacagc tcactgccaa 120
gacaaagcag gaagaatgcc agctccatat cacaggattc ctgggaacag aagagtgaag 180
aaatctttgg gcaagtatgg ccctagcagt gtagaagaca ccacaggaag tgg 233

<210> 56
<211> 222
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<223> Incyte ID No: 700109331H1

<400> 56
gggcatctca aatgcaagga aaactaatct ttttgccaaa ttgacacttt gtaaatttat 60
tttctctatt gctaaaaata aaatagacat gtgtttggga ccctgagtct catcccgaag 120
catccgaacc ttactcaaag aatcatggag attgtactca ctacctaat ccatgctttt 180
tgattttcgt gttttaacga aatccaattg actggcatct ga 222

<210> 57
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

PC-0032 US

<223> Incyte ID No: g6661750

<400> 57

```
aaggggcgct gccgcgagcc tccgggcctc aggggtgttcc ggggagcggc gccccgggtc 60
tctgggcccc cccgccccgg gcgtcctccg agagtggggg ctgcgcccgc ggggtcagac 120
acctgttcgg cccggccccg cgtggtcgcc gggggccagg atgaaagtga ccgtgtgctt 180
cggcaggacg ggcacgtggg tgccctgcaa ggagggccag ctgcgcgtcg gcgagctcac 240
ccagcaggcg ctgcagcggg acctgaagac ccgggagaag ggtcctggtt actgggtgaa 300
gattcatcac ttagaatata cagatggagg aatcctggat ccagatgatg tcttggcaga 360
tgttggtga                                     369
```

<210> 58

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: GNN.g10801482_004.edit

<400> 58

```
gccccggccg cacatggttc gagggccgagg ctgcaatgag agcttttagag cagccattga 60
caaatcctac gatggacctg aagaaataga agctgacggg ctgtctgata agagctctca 120
ctctggccaa ggagctctga attgtgagtc tgcccctcag gggaattcgg agctagagga 180
catggaaaat aaagccagga aagtcaaaaa aacgaaagag aaggagaaga aaaaggaaaa 240
gggcaaattg aaagtcaagg agaaaaagcg caaagaggag aatgaagatc cagaaaggaa 300
aataaagaag aagggcttcg gcgccatgct gaggtatggg cctgctttga aggcaaagtt 360
ggttctcatt ttgtctctcc tgaaaaaagc gcacgctttt cctcgtcttc agccaaatgc 420
atacggctct caattctgtg ctcgttctct ttctgcagag gcagaggagc tttttgggga 480
aagttacagt gatgacagga cactgtctta a                                     511
```

<210> 59

<211> 591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g6993427

<400> 59

```
ccagttttat ccttttttct atcagttctta tcacettctt cttggtttcc attcatttgt 60
ctctccagag agtgggaagg ctgatcactg gctgtggata cagactctct ccctgatctt 120
gaactttctt ctgtgtcttc ttccaaggct tccatgcctt catcatcatc atctaccacg 180
ggtttatcat aagatttgtc gatggcagct ctgaagctct cattgcatcc cctgcctctg 240
attatccgcg gccgtggacg atggaaagga atatcccat tcaaagtcac ctcggaact 300
gcggtctgca gactctccaa cgagcttgac ttcttcagac ccagggaagg acccacatct 360
ctgctgggag aacctgcttt ctggtcatcc actgtattga gtttagtctc gtcagctata 420
cctaaatcca tgctttttga ttttcgtgtt ttaacgaaat ccaattgact ggcactctgaa 480
aattgctttg tgcgtttttc tgacatactc tgacgtccaa atccttctcg ttgaaaagca 540
agaactggat caacatctgg actcaaagag cagtcgggtg aatcactgat t                                     591
```

<210> 60

<211> 389

<212> DNA

<213> Homo sapiens

PC-0032 US

<220>

<221> misc_feature

<223> Incyte ID No: g5529915

<400> 60

```
tttttttttca gttttatcct tttttctatc agtcttatca cttttctctt ggttttccatt 60
catttgctctc tccagagagt gggaaggctg atcactggct gtggatacag actctctccc 120
tgatcttgaa ctttcttctg tgtcttcttc caaggctctc atgccttcat catcatcatc 180
taccgcgggt ttatcataag atttgctgat ggcagctctg aagctctcat tgcacccct 240
gcctctgatt atccgcggcc gtggacgatg gaaaggaata tccccattca aagtcacctc 300
ggcaactgcg gtctgcagac tctccaacga gcttgacttc ttcagacca gggaaggacc 360
cacatctctg ctgggagaac ctgctttct 389
```

<210> 61

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g1733437

<400> 61

```
ggaaaccaag agaaagggtga taagactgat agaaaaaagg ataaaactgg aaaagaaaag 60
aagaaagata gagataagga gaaggataaa atgaaagcca agaagggaat gctgaagggc 120
ttgggagaca tggttcagggt tggcaaacat cgaaaagatg acaagattga gaaaacgggt 180
aaaataaaaa tacaggaatc ctttacatca gaagaggaga ggatacgaat gaagcaggag 240
caggagagga ttcaagccaa aactcgagaa tttagggaac cgacaagctc gagagcgtga 300
ctatgctgaa attcaagatt ttcatcggac atttggtgtg gatgatgagt taatgtatgg 360
gggagtt 367
```

<210> 62

<211> 1337

<212> PRT

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: g3868778

<400> 62

```
Met Lys Val Thr Val Cys Phe Gly Arg Thr Arg Val Val Val Pro
  1          5          10          15
Cys Gly Asp Gly Arg Met Lys Val Phe Ser Leu Ile Gln Gln Ala
  20          25          30
Val Thr Arg Tyr Arg Lys Ala Val Ala Lys Asp Pro Asn Tyr Trp
  35          40          45
Ile Gln Val His Arg Leu Glu His Gly Asp Gly Gly Ile Leu Asp
  50          55          60
Leu Asp Asp Ile Leu Cys Asp Val Ala Asp Asp Lys Asp Arg Leu
  65          70          75
Val Ala Val Phe Asp Glu Gln Asp Pro His His Gly Gly Asp Gly
  80          85          90
Thr Ser Ala Ser Ser Thr Gly Thr Gln Ser Pro Glu Ile Phe Gly
  95          100         105
Ser Glu Leu Gly Thr Asn Asn Val Ser Ala Phe Arg Pro Tyr Gln
```

Thr Thr Ser Glu	110	115	120
Ile Glu Val Thr Pro	125	Ser Val Leu Arg Ala	Asn
Met Pro Leu His	130	135	
Val Arg Arg Ser Ser	140	Asp Pro Ala Leu Thr	Gly
145	150		
Leu Ser Thr Ser	155	Val Ser Asp Asn Asn	Phe Ser Ser Glu Glu
160	165		
Ser Arg Lys Asn	170	Pro Thr Arg Trp Ser	Thr Thr Ala Gly Phe
175	180		
Lys Gln Asn Thr	185	Thr Gly Ser Pro Lys	Thr Cys Asp Arg Lys
190	195		
Asp Glu Asn Tyr	200	Arg Ser Leu Pro Arg	Asp Pro Ser Ser Trp
205	210		
Asn Gln Phe Gln	215	Arg Asp Asn Ala Arg	Ser Ser Leu Ser Ala
220	225		
His Pro Met Val	230	Asp Arg Trp Leu Glu	Lys Gln Glu Gln Asp
235	240		
Glu Gly Thr Glu	245	Glu Asp Ser Ser Arg	Val Glu Pro Val Gly
250	255		
Ala Asp Thr Gly	260	Leu Glu Asn Met Pro	Asn Phe Ser Leu Asp
265	270		
Met Val Lys Leu	275	Val Gln Val Pro Asn	Asp Gly Gly Pro Leu
280	285		
Ile His Val Val	290	Pro Phe Ser Ala Arg	Gly Gly Arg Thr Leu
295	300		
Leu Leu Val Lys	305	Arg Leu Glu Lys Gly	Gly Lys Ala Glu Gln
310	315		
Asn Leu Phe His	320	Glu Asn Asp Cys Ile	Val Arg Ile Asn Asp
325	330		
Asp Leu Arg Asn	335	Arg Arg Phe Glu Gln	Ala Gln His Met Phe
340	345		
Gln Ala Met Arg	350	Ala Arg Val Ile Trp	Phe His Val Val Pro
355	360		
Ala Asn Lys Glu	365	Gln Tyr Glu Gln Leu	Ser Gln Arg Glu Met
370	375		
Asn Tyr Ser Pro	380	Gly Arg Phe Ser Pro	Asp Ser His Cys Val
385	390		
Asn Arg Ser Val	395	Ala Asn Asn Ala Pro	Gln Ala Leu Pro Arg
400	405		
Pro Arg Leu Ser	410	Gln Pro Pro Glu Gln	Leu Asp Ala His Pro
415	420		
Leu Pro His Ser	425	Ala His Ala Ser Thr	Lys Pro Pro Thr Ala
430	435		
Ala Leu Ala Pro	440	Pro Asn Val Leu Ser	Thr Ser Val Gly Ser
445	450		
Tyr Asn Thr Lys	455	Arg Val Gly Lys Arg	Leu Asn Ile Gln Leu
460	465		
Lys Gly Thr Glu	470	Gly Leu Gly Phe Ser	Ile Thr Ser Arg Asp
475	480		
Thr Ile Gly Gly	485	Ser Ala Pro Ile Tyr	Val Lys Asn Ile Leu
490	495		
Arg Gly Ala Ala	500	Ile Gln Asp Gly Arg	Leu Lys Ala Gly Asp
505	510		
Leu Ile Glu Val	515	Asn Gly Val Asp Leu	Ala Gly Lys Ser Gln
520	525		
Glu Val Val Ser	525	Leu Leu Arg Ser Thr	Lys Met Glu Gly Thr
			Val

Ser Leu Leu Val	530	535	540
Phe Arg Gln Glu Glu	545	550	555
Met Asn Ala Glu Pro	560	565	570
Ala Glu Asp Glu Asp	575	580	585
Phe Leu Thr Phe Glu	590	595	600
Val Lys Gly Asn Arg	605	610	615
Asp Leu Gly Ile Phe	620	625	630
Ser Lys Asp Gly Arg	635	640	645
Asn Gly Glu Ser Leu	650	655	660
Thr Leu Arg Arg Ser	665	670	675
Ile Gln Leu Ile Val	680	685	690
Arg Ser Pro Gly Ser	695	700	705
Glu Leu Asp Asp Arg	710	715	720
Gly Ile Glu Gly Leu	725	730	735
Ser Arg Ile Met Gly	740	745	750
Val Asn Met Pro His	755	760	765
Leu Pro Val Leu Pro	770	775	780
Ser His Asp Asp Val	785	790	795
Ala Lys Ala Thr Ile	800	805	810
Asp Val Asp Pro Val	815	820	825
Gln Ser Met Ser Glu	830	835	840
Gln Leu Asp Phe Val	845	850	855
Gly Ile Ala Asp Glu	860	865	870
Ala Gly Ser Pro Asn	875	880	885
Lys Ser Ser Ser Leu	890	895	900
Thr Leu Asn Gly Asn	905	910	915
Ile Arg Gly Arg Gly	920	925	930
Lys Ser Tyr Asp Lys	935	940	945
Glu Thr Leu Glu Glu			

PC-0032 US

950 955 960
Glu Ser Val Ser Thr Ser Ser Asp Gln Pro Ser Tyr Ser Leu Glu
965 970 975
Arg Gln Met Asn Gly Asp Pro Glu Lys Arg Asp Lys Ala Glu Lys
980 985 990
Lys Lys Asp Lys Ala Gly Lys Asp Lys Lys Lys Asp Arg Glu Lys
995 1000 1005
Glu Lys Asp Lys Leu Lys Ala Lys Lys Gly Met Leu Lys Gly Leu
1010 1015 1020
Gly Asp Met Phe Arg Phe Gly Lys His Arg Lys Asp Asp Lys Met
1025 1030 1035
Glu Lys Met Gly Arg Ile Lys Ile Gln Asp Ser Phe Thr Ser Glu
1040 1045 1050
Glu Asp Arg Val Arg Met Lys Glu Glu Gln Glu Arg Ile Gln Ala
1055 1060 1065
Lys Thr Arg Glu Phe Arg Glu Arg Gln Ala Arg Glu Arg Asp Tyr
1070 1075 1080
Ala Glu Ile Gln Asp Phe His Arg Thr Phe Gly Cys Asp Asp Glu
1085 1090 1095
Leu Leu Tyr Gly Gly Met Ser Ser Tyr Asp Gly Cys Leu Ala Leu
1100 1105 1110
Asn Ala Arg Pro Gln Ser Pro Arg Glu Gly His Leu Met Asp Thr
1115 1120 1125
Leu Tyr Ala Gln Val Lys Lys Pro Arg Ser Ser Lys Pro Gly Asp
1130 1135 1140
Ser Asn Arg Ser Thr Pro Ser Asn His Asp Arg Ile Gln Arg Leu
1145 1150 1155
Arg Gln Glu Phe Gln Gln Ala Lys Gln Asp Glu Asp Val Glu Asp
1160 1165 1170
Arg Arg Arg Thr Tyr Ser Phe Glu Gln Ser Trp Ser Ser Ser Arg
1175 1180 1185
Pro Ala Ser Gln Ser Gly Arg His Ser Val Ser Val Glu Val Gln
1190 1195 1200
Val Gln Arg Gln Arg Gln Glu Glu Arg Glu Ser Phe Gln Gln Ala
1205 1210 1215
Gln Arg Gln Tyr Ser Ser Leu Pro Arg Gln Ser Arg Lys Asn Ala
1220 1225 1230
Ser Ser Val Ser Gln Asp Ser Trp Glu Gln Asn Tyr Ala Pro Gly
1235 1240 1245
Glu Gly Phe Gln Ser Ala Lys Glu Asn Pro Arg Tyr Ser Ser Tyr
1250 1255 1260
Gln Gly Ser Arg Asn Gly Tyr Leu Gly Gly His Gly Phe Asn Ala
1265 1270 1275
Arg Val Met Leu Glu Thr Gln Glu Leu Leu Arg Gln Glu Gln Arg
1280 1285 1290
Arg Lys Glu Gln Gln Leu Lys Lys Gln Pro Pro Ala Asp Gly Val
1295 1300 1305
Arg Gly Pro Phe Arg Gln Asp Val Pro Pro Ser Pro Ser Gln Val
1310 1315 1320
Ala Arg Leu Asn Arg Leu Gln Thr Pro Glu Lys Gly Arg Pro Phe
1325 1330 1335
Tyr Ser

<210> 63

<211> 1266

PC-0032 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g8037915

<400> 63

Met	Lys	Val	Thr	Val	Cys	Phe	Gly	Arg	Thr	Arg	Val	Val	Val	Pro
1				5					10					15
Cys	Gly	Asp	Gly	His	Met	Lys	Val	Phe	Ser	Leu	Ile	Gln	Gln	Ala
				20					25					30
Val	Thr	Arg	Tyr	Arg	Lys	Ala	Ile	Ala	Lys	Asp	Pro	Asn	Tyr	Trp
				35					40					45
Ile	Gln	Val	His	Arg	Leu	Glu	His	Gly	Asp	Gly	Gly	Ile	Leu	Asp
				50					55					60
Leu	Asp	Asp	Ile	Leu	Cys	Asp	Val	Ala	Asp	Asp	Lys	Asp	Arg	Leu
				65					70					75
Val	Ala	Val	Phe	Asp	Glu	Gln	Asp	Pro	His	His	Gly	Gly	Asp	Gly
				80					85					90
Thr	Ser	Ala	Ser	Ser	Thr	Gly	Thr	Gln	Ser	Pro	Glu	Ile	Phe	Gly
				95					100					105
Ser	Glu	Leu	Gly	Thr	Asn	Asn	Val	Ser	Ala	Phe	Gln	Pro	Tyr	Gln
				110					115					120
Ala	Thr	Ser	Glu	Ile	Glu	Val	Thr	Pro	Ser	Val	Leu	Arg	Ala	Asn
				125					130					135
Met	Pro	Leu	His	Val	Arg	Arg	Ser	Ser	Asp	Pro	Ala	Leu	Ile	Gly
				140					145					150
Leu	Ser	Thr	Ser	Val	Ser	Asp	Ser	Asn	Phe	Ser	Ser	Glu	Glu	Pro
				155					160					165
Ser	Arg	Lys	Asn	Pro	Thr	Arg	Trp	Ser	Thr	Thr	Ala	Gly	Phe	Leu
				170					175					180
Lys	Gln	Asn	Thr	Ala	Gly	Ser	Pro	Lys	Thr	Cys	Asp	Arg	Lys	Asp
				185					190					195
Glu	Asp	Gly	Thr	Glu	Glu	Asp	Asn	Ser	Arg	Val	Glu	Pro	Val	Gly
				200					205					210
His	Ala	Asp	Thr	Gly	Leu	Glu	His	Ile	Pro	Asn	Phe	Ser	Leu	Asp
				215					220					225
Asp	Met	Val	Lys	Leu	Val	Glu	Val	Pro	Asn	Asp	Gly	Gly	Pro	Leu
				230					235					240
Gly	Ile	His	Val	Val	Pro	Phe	Ser	Ala	Arg	Gly	Gly	Arg	Thr	Leu
				245					250					255
Gly	Leu	Leu	Val	Lys	Arg	Leu	Glu	Lys	Gly	Gly	Lys	Ala	Glu	His
				260					265					270
Glu	Asn	Leu	Phe	Arg	Glu	Asn	Asp	Cys	Ile	Val	Arg	Ile	Asn	Asp
				275					280					285
Gly	Asp	Leu	Arg	Asn	Arg	Arg	Phe	Glu	Gln	Ala	Gln	His	Met	Phe
				290					295					300
Arg	Gln	Ala	Met	Arg	Thr	Pro	Ile	Ile	Trp	Phe	His	Val	Val	Pro
				305					310					315
Ala	Ala	Asn	Lys	Glu	Gln	Tyr	Glu	Gln	Leu	Ser	Gln	Ser	Glu	Lys
				320					325					330
Asn	Asn	Tyr	Tyr	Ser	Ser	Arg	Phe	Ser	Pro	Asp	Ser	Gln	Tyr	Ile
				335					340					345
Asp	Asn	Arg	Ser	Val	Asn	Ser	Ala	Gly	Leu	His	Thr	Val	Gln	Arg
				350					355					360

PC-0032 US

Ala	Pro	Arg	Leu	Asn	His	Pro	Pro	Glu	Gln	Ile	Asp	Ser	His	Ser	
				365					370					375	
Arg	Leu	Pro	His	Ser	Ala	His	Pro	Ser	Gly	Lys	Pro	Pro	Ser	Ala	
				380					385					390	
Pro	Ala	Ser	Ala	Pro	Gln	Asn	Val	Phe	Ser	Thr	Thr	Val	Ser	Ser	
				395					400					405	
Gly	Tyr	Asn	Thr	Lys	Lys	Ile	Gly	Lys	Arg	Leu	Asn	Ile	Gln	Leu	
				410					415					420	
Lys	Lys	Gly	Thr	Glu	Gly	Leu	Gly	Phe	Ser	Ile	Thr	Ser	Arg	Asp	
				425					430					435	
Val	Thr	Ile	Gly	Gly	Ser	Ala	Pro	Ile	Tyr	Val	Lys	Asn	Ile	Leu	
				440					445					450	
Pro	Arg	Gly	Ala	Ala	Ile	Gln	Asp	Gly	Arg	Leu	Lys	Ala	Gly	Asp	
				455					460					465	
Arg	Leu	Ile	Glu	Val	Asn	Gly	Val	Asp	Leu	Val	Gly	Lys	Ser	Gln	
				470					475					480	
Glu	Glu	Val	Val	Ser	Leu	Leu	Arg	Ser	Thr	Lys	Met	Glu	Gly	Thr	
				485					490					495	
Val	Ser	Leu	Leu	Val	Phe	Arg	Gln	Glu	Asp	Ala	Phe	His	Pro	Arg	
				500					505					510	
Glu	Leu	Lys	Ala	Glu	Asp	Glu	Asp	Ile	Val	Leu	Thr	Pro	Asp	Gly	
				515					520					525	
Thr	Arg	Glu	Phe	Leu	Thr	Phe	Glu	Val	Pro	Leu	Asn	Asp	Ser	Gly	
				530					535					540	
Ser	Ala	Gly	Leu	Gly	Val	Ser	Val	Lys	Gly	Asn	Arg	Ser	Lys	Glu	
				545					550					555	
Asn	His	Ala	Asp	Leu	Gly	Ile	Phe	Val	Lys	Ser	Ile	Ile	Asn	Gly	
				560					565					570	
Gly	Ala	Ala	Ser	Lys	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Gln	Leu	
				575					580					585	
Ile	Ala	Val	Asn	Gly	Glu	Ser	Leu	Leu	Gly	Lys	Thr	Asn	Gln	Asp	
				590					595					600	
Ala	Met	Glu	Thr	Leu	Arg	Arg	Ser	Met	Ser	Thr	Glu	Gly	Asn	Lys	
				605					610					615	
Arg	Gly	Met	Ile	Gln	Leu	Ile	Val	Ala	Arg	Arg	Ile	Ser	Lys	Cys	
				620					625					630	
Asn	Glu	Leu	Lys	Ser	Pro	Gly	Ser	Pro	Pro	Gly	Pro	Glu	Leu	Pro	
				635					640					645	
Ile	Glu	Thr	Ala	Leu	Asp	Asp	Arg	Glu	Arg	Arg	Ile	Ser	His	Ser	
				650					655					660	
Leu	Tyr	Ser	Gly	Ile	Glu	Gly	Leu	Asp	Glu	Ser	Pro	Ser	Arg	Asn	
				665					670					675	
Ala	Ala	Leu	Ser	Arg	Ile	Met	Gly	Lys	Tyr	Gln	Leu	Ser	Pro	Thr	
				680					685					690	
Val	Asn	Met	Pro	Gln	Asp	Asp	Thr	Val	Ile	Ile	Glu	Asp	Asp	Arg	
				695					700					705	
Leu	Pro	Val	Leu	Pro	Pro	His	Leu	Ser	Asp	Gln	Ser	Ser	Ser	Ser	
				710					715					720	
Ser	His	Asp	Asp	Val	Gly	Phe	Val	Thr	Ala	Asp	Ala	Gly	Thr	Trp	
				725					730					735	
Ala	Lys	Ala	Ala	Ile	Ser	Asp	Ser	Ala	Asp	Cys	Ser	Leu	Ser	Pro	
				740					745					750	
Asp	Val	Asp	Pro	Val	Leu	Ala	Phe	Gln	Arg	Glu	Gly	Phe	Gly	Arg	
				755					760					765	
Gln	Ile	Ala	Asp	Glu	Thr	Lys	Leu	Asn	Thr	Val	Asp	Asp	Gln	Lys	
				770					775					780	

PC-0032 US

Ala	Gly	Ser	Pro	Ser	Arg	Asp	Val	Gly	Pro	Ser	Leu	Gly	Leu	Lys	785	790	795
Lys	Ser	Ser	Ser	Leu	Glu	Ser	Leu	Gln	Thr	Ala	Val	Ala	Glu	Val	800	805	810
Thr	Leu	Asn	Gly	Asp	Ile	Pro	Phe	His	Arg	Pro	Arg	Pro	Arg	Ile	815	820	825
Ile	Arg	Gly	Arg	Gly	Cys	Asn	Glu	Ser	Phe	Arg	Ala	Ala	Ile	Asp	830	835	840
Lys	Ser	Tyr	Asp	Lys	Pro	Ala	Val	Asp	Asp	Asp	Asp	Glu	Gly	Met	845	850	855
Glu	Thr	Leu	Glu	Glu	Asp	Thr	Glu	Glu	Ser	Ser	Arg	Ser	Gly	Arg	860	865	870
Glu	Ser	Val	Ser	Thr	Ala	Ser	Asp	Gln	Pro	Ser	His	Ser	Leu	Glu	875	880	885
Arg	Gln	Met	Asn	Gly	Asn	Gln	Glu	Lys	Gly	Asp	Lys	Thr	Asp	Arg	890	895	900
Lys	Lys	Asp	Lys	Thr	Gly	Lys	Glu	Lys	Lys	Lys	Asp	Arg	Asp	Lys	905	910	915
Glu	Lys	Asp	Lys	Met	Lys	Ala	Lys	Lys	Gly	Met	Leu	Lys	Gly	Leu	920	925	930
Gly	Asp	Met	Phe	Arg	Phe	Gly	Lys	His	Arg	Lys	Asp	Asp	Lys	Ile	935	940	945
Glu	Lys	Thr	Gly	Lys	Ile	Lys	Ile	Gln	Glu	Ser	Phe	Thr	Ser	Glu	950	955	960
Glu	Glu	Arg	Ile	Arg	Met	Lys	Gln	Glu	Gln	Glu	Arg	Ile	Gln	Ala	965	970	975
Lys	Thr	Arg	Glu	Phe	Arg	Glu	Arg	Gln	Ala	Arg	Glu	Arg	Asp	Tyr	980	985	990
Ala	Glu	Ile	Gln	Asp	Phe	His	Arg	Thr	Phe	Gly	Cys	Asp	Asp	Glu	995	1000	1005
Leu	Met	Tyr	Gly	Gly	Val	Ser	Ser	Tyr	Glu	Gly	Ser	Met	Ala	Leu	1010	1015	1020
Asn	Ala	Arg	Pro	Gln	Ser	Pro	Arg	Glu	Gly	His	Met	Met	Asp	Ala	1025	1030	1035
Leu	Tyr	Ala	Gln	Val	Lys	Lys	Pro	Arg	Asn	Ser	Lys	Pro	Ser	Pro	1040	1045	1050
Val	Asp	Ser	Asn	Arg	Ser	Thr	Pro	Ser	Asn	His	Asp	Arg	Ile	Gln	1055	1060	1065
Arg	Leu	Arg	Gln	Glu	Phe	Gln	Gln	Ala	Lys	Gln	Asp	Glu	Asp	Val	1070	1075	1080
Glu	Asp	Arg	Arg	Arg	Thr	Tyr	Ser	Phe	Glu	Gln	Pro	Trp	Pro	Asn	1085	1090	1095
Ala	Arg	Pro	Ala	Thr	Gln	Ser	Gly	Arg	His	Ser	Val	Ser	Val	Glu	1100	1105	1110
Val	Gln	Met	Gln	Arg	Gln	Arg	Gln	Glu	Glu	Arg	Glu	Ser	Ser	Gln	1115	1120	1125
Gln	Ala	Gln	Arg	Gln	Tyr	Ser	Ser	Leu	Pro	Arg	Gln	Ser	Arg	Lys	1130	1135	1140
Asn	Ala	Ser	Ser	Val	Ser	Gln	Asp	Ser	Trp	Glu	Gln	Asn	Tyr	Ser	1145	1150	1155
Pro	Gly	Glu	Gly	Phe	Gln	Ser	Ala	Lys	Glu	Asn	Pro	Arg	Tyr	Ser	1160	1165	1170
Ser	Tyr	Gln	Gly	Ser	Arg	Asn	Gly	Tyr	Leu	Gly	Gly	His	Gly	Phe	1175	1180	1185
Asn	Ala	Arg	Val	Met	Leu	Glu	Thr	Gln	Glu	Leu	Leu	Arg	Gln	Glu	1190	1195	1200

PC-0032 US

Gln	Arg	Arg	Lys	Glu	Gln	Gln	Met	Lys	Lys	Gln	Pro	Pro	Ser	Glu
			1205						1210					1215
Gly	Pro	Ser	Asn	Tyr	Asp	Ser	Tyr	Lys	Lys	Val	Gln	Asp	Pro	Ser
			1220						1225					1230
Tyr	Ala	Pro	Pro	Lys	Gly	Pro	Phe	Arg	Gln	Asp	Val	Pro	Pro	Ser
			1235						1240					1245
Pro	Ser	Gln	Val	Ala	Arg	Leu	Asn	Arg	Leu	Gln	Thr	Pro	Glu	Lys
			1250						1255					1260
Gly	Arg	Pro	Phe	Tyr	Ser									
			1265											